# Manufacturers' Record

A WEEKLY SOUTHERN INDUSTRIAL, RAILROAD AND FINANCIAL NEWSPAPER

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## BALTIMORE, MAY 5, 1910

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## Manufacturers' Record.

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BALTIMORE, MAY 5, 1910.

## ADVERTISING ALABAMA.

Alabama is being given notable ad vertisement in a fact connected with the building of a street-railway line connecting Birmingham with Corey, the new industrial town being built from the ground up to meet the demands of expanding activities at Ensley. A few days ago 500 tons of 80-pound steel rails were laid down on the right of way of the road. These rails had, within a few days after the order was given, been run through the mills of the Tennessee Coal. Iron & Railroad Co. and delivered. The line is expected to be completed by the first of June. The striking fact about it is that its rails will lie within 20 or 30 minutes' walk of the sources of the materials from which they were made, the ore, the coke used in turning the ore into pig-iron and the limestone used as flux. The proximity of raw materials for the production of steel is the elemental influence in the growth that the district has already attained and the sure factor for its greater development.

## RECLAIMING WET LANDS.

The story in this issue of the reclamation work now in progress in Eastern Carolina shows how rapidly there is spreading throughout the land a recognition of the importance of reclaiming for man's uses the millions of acres hitherto idle land, in some cases known as swamp lands and in some as wet or overflowed lands. In Eastern Carolina there has been remarkable de velopment in the trucking interest, and an increasing demand for trucking land ing the reclamation of some thousands of acres of land from which the timber has been taken, but which is too wet to be available for cultivation without drainage

Impetus to this movement for reclamation in the eastern part of the South will be given by the work in the Everglades region of Florida involving the cutting of 235 miles of canals. Though that plan will benefit individual interests, it is to be carried out under the auspices of the State Government as affecting the interests of the State. In South Carolina it is announced a Chicago capitalist has purchased 20,700 acres of wet lands, the greater part wooded and estimated as capable of yielding 150,000,000 feet of marketable pine timber. The timber is to be cleared away and the lands are to be drained and turned into truck farms. many points the capitalist and the engineer are gradually reducing the 50,-000,000 acreage of wet lands in the South and bringing them into condition for the most productive kind of farming.

## PESSIMISTS, TO THE REAR!

The editorial review of the cotton situation in the last issue of the MANU-FACTURERS' RECORD, which was written after telegraphic consultation with the best-posted authorities throughout the entire South, proves to have been correct. The damage to the cotton crop is not as serious as was indicated by the first reports published in the daily pa-The statements that it would be impossible to secure seed for replanting and that the mills were charging \$100 to \$150 per ton for seed have been proved incorrect, as we said at the time. It is always well to make due allowance for exaggerated reports that are sent out in any time of great disaster, whether it be a fire, a flood or a freeze

It is gratifying to know that, although considerable damage was done to the growing cotton crop, it was not of such a serious character as to at all affect the material interests of the South. This section is prospering in recent years to such an extent that it could suffer a very great damage, many times worse than the recent cold snap, without any really severe injury. As a matter of fact, the loss by reason of a great shortage of cotton would not fall so much upon the South as upon the world at large. Another cotton crop of 10,000,000 bales following the present shortage in the world's supply would drive cotton to such a price as to bring to this section the largest amount of money ever received for any cotton But to the world at large it crop. would prove a great disaster, for millions of spindles would have to remain idle and hundreds of thousands of employes in cotton mills would have to work on short time. The rest of the world would be the sufferer; the South would have but little of which to com-Notwithstanding this wellplain.

presented in the papers of the country as though a short cotton crop would be a disaster to the South, whereas such reports should bemoan the fate of the world, which depends upon the South's cotton, while lamenting that a short crop compels the world to pay so big a price to this section. That would be the more logical way of looking at the

A very considerable proportion of cotton is replanted every year even under normal weather conditions. The recent cold snap did some damage to cotton above ground, and in a limited area possibly to the seed planted but not at the time sprouted. There is ample time, however, to replant where the growing plant or the seed were damaged, and an ample supply of seed has been found available. It may therefore be counted that while the crop will start with some adverse conditions, and much of it will be some weeks later than had been anticipated before the cold spell, when it was then several weeks ahead of the usual average con dition, there is no reason why the South should not this year be able to make a fairly good crop, and if weather condi tions are favorable it is possible that it may be able to produce a large crop. It may, therefore, be safely counted that there will be no material loss to the South from the recent cold snap. The recuperative power of this section is too great to be in any way retarded by so small a thing as a few days of unfavorable weather.

The world's demands, however, are uch that it needs 14,000,000 to 15,000,-000 bales of cotton from the South this year, and it needs it badly. Even if the South could and should this year produce 15,000,000 bales, not a pound ought to command as low a price as 12 cents if prices were always fixed by the law of supply and demand. shortage in the world's supply, practically the famished condition of cotton Yaffis in this country and abroad, but especially abroad, needs 15,000,000 bales to fill up the vacuum made by the consumption of reserve stocks heretofore carried and to meet the actual needs of the world's requirements for cotton goods.

With the certainty, as certain as any thing in human affairs can be, that the coming crop, whether large or small. should bring to the South the largest amount of money ever received for any cotton crop; with the general broad business development of this whole section, the very rapid development of diversified agriculture seen in every portion of the South; with the steady expansion of railroad interests, the southward trend of population and of capital, there is every reason to expect a great increase in the progress of this section during the next 12 months as compared with the last 12.

There is no room in America for a pessimist. There is no justification for the existence of such an abnormal indi-

States the South is pre-eminently the section in which, if a pessimist could be found, a committee ought to be appointed to inquire into his sanity. There may be pessimists in other sections about the South, because sometimes the wish is father to the thought, but the number of such has been decreasing so rapidly for the last 50 years that it is difficult to find one left. Let it be an accepted fact in the South that if any man is found who, by reason of temporary weather conditions, or who for any other cause shows that he has so little knowledge of the inherent strength and recuperative power of the South as to be a pessimist, that his friends will ask the Court to appoint a committee to inquire into his sanity.

## EXPANDING INDUSTRIAL OP-PORTUNITIES IN THE SOUTH.

Since January 1 the MANUFACTURERS' RECORD has presented a total of 17,912 items on developments and construction work in the South. The extent and diversity of the news published regarding these operations is shown in the following condensed statistical state-

Synopsis of Construction Department, Manu-PACTURERS' RECORD, covering the PACTURERS' RECORD, covering months of January, February, March and April, 1910.

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Miscellaneous Construction Work
Miscellaneous Enterprises
Miscellaneous Manufacturing Plants
Railway Shops, Terminals, Roundhor etc.
Road and Street Improvements.
Sewer Construction.
Telephone Systems.
Textile Mills
Water-works
Woodworking Plants. 

The list of Machinery, Proposals and Supplies Wanted contains 11 foreign wants, representing the countries of Cauada, Mexico, Agentine Republic, Chile, Holland, Italy, China, Turkey and Greece.

Machinery, Proposals and Supplies Wanted. 630

us Structures.

tallway Stations....

Capitalists, manufacturers, builders, ngineers, dealers, farmers, mechanics has justified local people in undertak- known fact, the situation is generally vidual; but of all portions of the United and laborers are alike concerned in

these current records of building of made through the Business Men's Club. bridges and roads; development, drainage and irrigation of lands; establishment and extension of railroad lines. and building of terminals; opening of mines; equipment of factories, of iron, lumber, textile and flour mills, and concrete and cement plants: operations of various woodworking industries; construction of electric-light and power plants: installation of ice and cold-storage machinery: establishment of and improvements to water-works and sewerage systems.

The buildings noted in these columns make demand upon the skill of the architect and designer; the contractor brings men, machinery and material to the constructive part of the work. From the excavation of the first shovelful of earth to the final touch of the dec orator's art there is need and call for all that goes into the erection, furnishing and adorning of State and municipal structures; of courthouses and office buildings; of dwellings, schools, theaters and warehouses. These needs, with those of the above-mentioned industrial enterprises, have been set forth daily by our Daily Bulletin and weekly in the columns of the MANUFACTURERS RECORD. Many enterprises and build ings have been twice or several times mentioned as further developments have progressed and new facts become known. In all these publications those who run the industrial races may read the lines most applicable to their material supply or trained skill.

As to material supplies, many such have been noted in the 630 items appearing in Machinery, Proposals and Supplies Wanted columns during April, as also in the aggregate of 2536 such Items published within the four months. Every one of these is a definite request from correspondents for precise information on the subject named. That 53 of these specific requests come from renders of the MANUFACTURERS' RECORD in foreign countries is an indication of the interest with which its published news is greeted in other lands. The foreign countries represented include Canada, Mexico, Cuba, Argentina, Uruguay, Gautemala, Porto Rico, Australia, Chile, Holland, Austria, Hungary, France, England, Italy, China, Turkey, India and Greece.

At first view the 604 notices of burned and storm-wrecked buildings and plants would seem rather of the destructive than of the conservative order. But, with few exceptions, they mean re-erection of buildings and replacement of machinery or repairs to damaged. With such facts in view these items also are noted pending accurate information as to plans for rebuilding, equipment, etc.

These statements strikingly illustrate the South's enterprise and expanding industrial opportunities.

## UNITED FOR CITY GROWTH.

Upon several occasions recently the MANUFACTURERS' RECORD has been moved to cite Oklahoma City as an illustration of what communities may accomplish by giving evidence to the world that they are alive and are anxious to attract live men. Oklahoma City naturally has the advantage of being a center in a new State full of possibilities which active men from all parts of the country are eager to disover. In this issue we publish a letter from Gadsden, in one of the oldest States of the country, Alabama, telling of the success of a bonus of \$150,000 offered for the establishment of a steelworking plant there. The offer was

There lies the secret—the union of forces by alert, aggressive men for the advancement of the interests of the whole community. It is the sure promise of success wherever the city may be situated and whether the city is 50 years old or five years old. The explanation of Oklahoma City's progress is offered in its possession of a Chamber of Commerce with 1200 members each paying \$2.50 a month and standing in solid phalanx behind an able leader for everything that is likely to advance the city's materialities. That is a fine sum of money-\$36,000-available every year for developmental meas-It exemplifies the spirit of the business men of Oklahoma City. But a large sum of money is of comparatively little use unless it be spent in the right way at the right time. Results show that Oklahoma City and its Chamber of Commerce have the proper com-

#### NEW RAILROAD COMPANIES IN THE SOUTH.

Need for more railroads in the South is well expressed in the fact that during the four months which have passed since January 1 there have been incor porated or organized in this section of our country 76 new railway corporations, which propose to construct altogether 5214 miles of line. Including Missouri and Oklahoma, the total number of new companies is 90 and their total projected length 7330 miles. None of these figures includes street railways, although electric interurban lines have been taken account of, besides others which intend to use gasoline motive power. All are entirely new enterprises, none chartered or formed previous to the period under consideration being enumerated.

This disposition to increase the railroad mileage of the Southern and Southwestern States is a most gratifyingly characteristic of their people, who realize that more lines are imperatively needed to develop natural resources, te encourage agriculture and other industries, and to facilitate and extend commerce. Florida is the only State which since the beginning of the present year has not seen the formation or charter of some new railroad enterprise, but considerable railroad construction is in progress within her borders and some important extensions are also being made. Texas shows the largest number of new companies, and Kentucky and Missouri each the least. The following table exhibits compactly what is being done:

	N	umber of	Total
States.	new	companies.	mileage.
Alabama		3	85
Arkansas		7	245
District of Columb		1	10
Georgia		7	648
Kentucky		1	55
Louisiana		3	100
Maryland		5	217
Mississippi		3	490
Missourl		1	30
North Carolina		7	315
Oklahoma		13	1986
South Carolina		5	314
Tennessee		2	25
Texas		17	2245
Virginia		3	95
West Virginia		12	470
Totals		90	7330

In Texas and Oklahoma, where it might be expected that much new railroad would be built, because large sec tions of these States are still undeveloped and quite new country, the amount of work projected is nevertheless tonishing. In Texas there are three large plans—one of 478 miles from the northern to the Southern part of the State, another of 360 miles running from the southeast to the northward, tion by next autumn. An extension of nated in the shortsighted, narrow-

and still another which proposes the building of nearly 500 miles. Four other schemes call for the construction of more than 100 miles each, besides smaller propositions. In Oklahoma there is one organization which plans to build 500 miles, four others with an average of more than 200 miles each, besides four more with over 100 miles each to construct. In the other States the mileage proposed is mostly broken into small lines of from 25 to 50-mile lengths. Thus West Virginia, with 12 new roads planned, has only one of as much as 100 miles.

Considerable of this proposed mileage will be under construction this summer. yet it will be only part of a great amount of new railroad work that is under way or decided upon for the extension or the betterment, as the case may be, of existing roads. Thus in Texas the Santa Fe system is pushing its extensive construction of new lines in the western part of the State, which, when finished, will add several hundreds of miles to its tracks and will be the first big construction done through the Llano Estacado region. The contractors are rapidly pushing it. The Wichita Falls Route is also doing considerable new work in both Texas and Oklahoma. The Kansas City, Mexico & Orient has a line building from San Angelo to Del Rio, Tex., 170 miles, this being in addition to its main-line construction, which is steadily progressing. The Texas Central has one extension under way and contemplates starting another soon. The Frisco also has a new branch under way from Brady to Menardville, which may be extended farther. Construction has begun on the Galveston-Houston Electric Railway, which has been under discussion for several years, and it is expected to be completed by the end of December next. At Aransas Pass the work of building a terminal railroad and deep-water har bor is begun. The Stephenville North & South Texas Railway is to be extended in both directions, the Missouri, Kansas & Texas (a Hawley system) having purchased it. The Rock Island will rebuild its line between St. Louis and Kansas City to make it a very substantial, high-grade road, and it will also do a large quantity of betterment work in Arkansas. In the last-named State the Memphis, Paris & Gulf Railway Co. will start its extension plans, building first eastward toward Memphis, Tenn., the southwestern extension to Dallas, Tex., to be taken up later. An entirely new enterprise is also proposed for a railroad from St. Louis to Fort Smith.

In the eastern part of the South the Chesapeake & Ohio, the Norfolk & Western, the Louisville & Nashville and the Western Maryland all have recently started important work. The C. & O. is double-tracking, besides building some extensions in the coal fields; the N. & W. has extensive double-track and tunnel work in progress; the L. & N. is reaching out into new Kentucky coal territory by means of the Wasiota & Black Mountain Railway, which has more than 50 miles of extension under contract, and the W. M. has just awarded contract to build its extension over 80 miles to connect with the New York Central system. The Winston-Salem Southbound Railway, a joint enterprise of the Atlantic Coast Line and the Norfolk & Western Railway, has completed so much of its grading that tracklaying is about to begin, and the 90-mile connecting line will probably be in opera100 miles is to be built by the Florida Railway, giving it a line from Live Oak, Fla., to Jacksonville and Fernandina. In South Carolina, probably extending into North Carolina, a big interurban line is to be constructed. J. B. and B. N. Duke of tobacco fame being prominent in the enterprise. Much other railroad work, including the Southern's better. ments on its Atlanta line, is also going on, but to specify more than the recent things would require too much space.

Considering the situation as it now appears, there will be a large amount of railroad construction accomplished this year in the South. Between the panic and 1910 it was dull, but conditions at present promise a liberal addition to the total mileage of Southern railroads before the advent of another

## THE NEW YORK SUN ON THE SOUTHERN "CHILD-LABOR" AGITATION.

In an editorial dealing with the question of child labor in Southern cotton mills the New York Sun places itself in a path that it could follow to the end to the profit of the country. It says:

Some time ago, perhaps three weeks, we took occasion to say that the women and children taken from the smaller Southern farms and employed in the cotton milis were vastly benefited by the transplantation. improved physically and morally, transformed from forlorn and anemic conditions into conditions of health and activity and and elevated to higher plan lightened well-being. Of course we did no refer to the exceptional mills where search ers after hardship and neglect can find almost any deplorable circumstance they happen to be looking for. We had in view the normal mill towns, representing sixtenths if not more of the now progressive industry.

There are mills all over North and South Carolina where so-called "child labor" has been most beneficent, where the mill owners build schools and churches, and for the most part pay the salaries of the teachers and the ministers, where they establish clubbo ministers, where they establish cluonouses and libraries and kindergartens for the training and development of the youth within their influence, and where the objects of these ministrations emerge from the pallid and unwholesome products of the isolated farms into rosy, happy and perfectly natural children. Some have established and military companies, playgrounds, for light theatrical entertainments. and behind it all are the sanitary homes cooking-schools, the system of picnics nd other social reunions which illumine life and bring health and knowledge and high spirits to the individual.

It is very easy for muckrakers, and, indeed, for honest but misguided reformers inspired y hired agents, to find here and there a mill there inferior conditions do actually pre-all. They can photograph mills brilliantly lighted up to prove that they run all night, and show little hands that have lost a finger o prove that the relentless myrmidons Mammon are grinding innocent children into the dust; but the testimony from an over-whelming majority of the Southern mills is to the contrary, and from most of the manu facturing towns and villages of the South we hear a very different story. From Pelzer, S. C., and from Greenville in the same State; from Charlotte, N. C.; from Alabama City, from far and wide, with the testimony of the Young Women's Christian Association organized workers for uplift to other sustain and illustrate the burden of the proof, we have a tale of rescue and exalta-tion that ought to fill every doubting heart.

We can hardly imagine that any sincere orker for the toiling classes would wish or, unless grossly misinformed, attempt to de-stroy or even minimize this perfectly com-plete and easily accessible evidence; and in that light of the matter we respectfully douge the esteemed Survey and other ignorant Northern oracles and fall back upon more or less useful testimony.

The deliberate drive of the past 10 years against the cotton mills of the South under the pretense of philanthropy is one of the most shameful episodes of the twentieth century. It origi910.

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minded view that this country is so small in area and so limited in manhood power that industries cannot flourish in one section except at the expense of like industries in other sections. Under the inspiration of that conviction an attempt was made to obtain national legislation interfering with the rights of individual citizens and calculated to hamper especially the operation of Southern cotton mills. As an aid to this attempt was enlisted organized labor, and as incident thereto Southern textile centers were visited by secret agents of organized labor introduced as simon-pure philanthropists and by spies in the employ of an official of at least one New England State.

Both agencies concealed their real intent-the crippling of the labor supply of Southern mills-under the guise of promoting the well-being of women and children and the social health of the country. Failure to incite to strikes for higher wages the employes of the mills or to infuse them with the spirit of radical socialism was quickly followed by a plea to the public having just nough truth about it to disarm suspicion of its essential falsehood. Given an emotional turn, appealing to the best instincts of women without opportunity to inform themselves as to facts, and to a few males here and there whose atmosphere had led them into the habit of using their midriffs as a vehicle for what they thought was thinking, this propaganda soon produced its horde of hireling agitators, unheard of previously as being particularly interested in the welfare of humanity, and fitting in with "benevolences" designed to confuse the public mind about fundamental questions that had to be settled right if the country was to maintain its integrity.

The lying, deliberate or unconscious, of the hirelings was reinforced by magazinists, lecturers and space-fillers for Sunday newspapers; organization central in New York city and financed there was effected; at least one Senator of the United States living and moving and having his being in hysterics and histrionics was loaded with misinformation, and provision was made for the expenditure of \$200,000 or \$300,000 of the people's money under the auspices of sociology.

All the while the managements of Southern cotton mills were carrying on to the best of their ability the policy which had been recognized as the proper one for 50 years and more, and following in the right direction, if, perhaps, imperfectly, the instincts of men employing others of their own race stock. Their attitude is well epitomized in the editorial of the New York Sun. Now, let the Sun follow the agitation to its feeding springs, tell the country what those springs are, and in so doing uncover the so-called philanthropies, the immigration schemes, under various guises, and other movements directed against the real welfare of the South with which New York city seems to

## CLASS LEGISLATION BY ORGAN-IZATION.

Furtherance of co-operation between the railroads and the farmers was the aim of the address at St. Louis this week by Chairman B. F. Yoakum of the St. Louis & San Francisco Railroad Co. before the National Farmers' Union. Mr. Yoakum has on many occasions recently shown a practical interest in the welfare of farmers whose operations result in so much business for the railroads, and in his speech he demon- eral Education Board is a part.

strated the beneficial results following co-operation between the man who produced and the man who transports. He argued for an understanding between railroads and farmers for the elimination of politicians who had used both in the past, and he commended the spirit that finds expression in organi-

It may be suggested that the meeting of the National Farmers' Union was a splendid opportunity for an exposition of the dangers in organization taking the form of political action upon a class basis. Only recently the Manufactur ERS' RECORD combatted the suggestion that the corporations of the country should organize a political party. For the same reasons then advanced we would warn the National Farmers' Union and like organizations against permitting their forces to be used in bringing political pressure to bear for the advancement of special interests. That inclination has already appeared in executive acts of the National Farmers' Union, and in it is the unfortunate possibility that many of the excellent practical results that the Union may accomplish through organization may be vitiated by giving its actions a po litical turn. Some of the greatest politicians in the country are men who never are prominent in political party affairs, but who in vociferous non-partisanship representative of or appealing to class interests are playing the biggest kind and the most dangerous kind of politics. The call of the country is for less of class in politics and more of character recognizing the good in practically all classes.

## A BLIND GUIDE.

In a gloss of the attempt to obtain national incorporation of the Rockefeller Foundation the World's Work in its current issue says:

A national charter, practically identical with the charter now asked for, was granted by Congress to the General Education Board, to which Mr. Rockefeller has given \$53,000,000. The only difference between them is that the The only difference between them is that the charter now asked for permits a wider range of philanthropic activities than the General Education Board has. Although the charter of the General Education Board provoked no criticism, the request for this new charter has called forth most extraordinary eccen-tricities of opposition.

The editor of the World's Work has been a member of the General Educa-tion Board from its beginning. His statement that the charter of the General Education Board provoked no criticism leaves to charitably minded observers but one of two conclusionseither that he has not kept in touch with current events of the past eight or nine years as a molder of public opinion should do, or that he has not been admitted into the sanctum sanc torum of the General Education Board.

If any national charter has provoked during the past eight years more criticism than the charter of the General Education Board, we have failed to observe it. It may be true that the actual text of the charter has not been criticised, and that, when it was cleverly passed through Congress, it excited no special comment at the time. But the acts of the General Education Board and its policy revealed in those acts and in the circumlocution of its representatives have been persistently and vigorously criticised in many quarters. That very criticism is responsible for the fact of the strong and widespread opposition to the Rockefeller Foundation, which is essentially nothing but a step forward in the scheme of which the Gen-

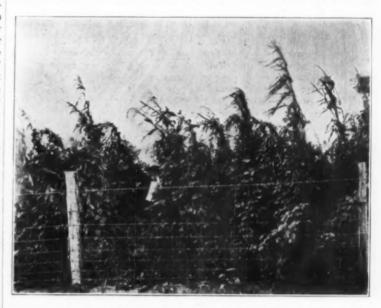
## SWAMP LANDS CHANGED INTO FERTILE FARMS.

What Individual Drainage Operations Have Done for Eastern North Carolina.

[Special Correspondence Manufacturers' Record.]

result of human activity, and the spirit of several mills at Belhaven, one of which progress is dominant. Twelve years ago belongs to the Roper Lumber Co., another

Belhaven, N. C., April 30. point for the products of its lands and its In this region of enthusiastic industry mills. The construction of this line, which and enterprise the things which are being was at first only a private enterprise, aldone would almost awaken the Seven though now a common carrier, and part Sleepers of ancient times and make the of the enterprising Norfolk & Southern dumb speak. Upon every hand is seen the system, resulted in the establishment of

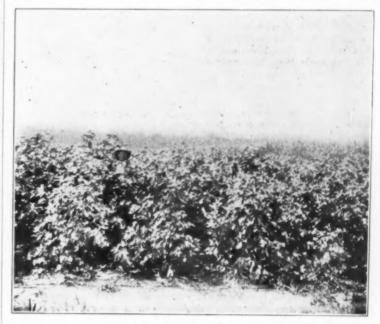


CORN AND PEAS, AFTER 200-BUSHEL CROP OF POTATOES IN SAME YEAR.

with a population estimated locally at from 3000 to 4000 individuals, electric railroad and several prosperous industries. chief industry throughout this region, it is

there was nothing at the point where this to the Wilkinson Bros. and the third to busy little city is situated save three fami- the Interstate Cooperage Co., the latter a lies. Now there is a bustling community Standard Oil plant for the making of casings to protect oil cans in shipment,

Although these mills require great quanlights, a good artesian water supply with tities of timber from the neighboring woodflowing wells on the streets, an excellent lands, and lumbering is consequently the



COTTON FIELD, WITH MR. S. W. WILKINSON, WHO IS 6 FEET 2 INCHES TALL.

The hotel is filled to overflowing practi- | not the gathering of forest products which cally every night, unexpected guests being quartered at nearby homes, and the spirit of the town spreads into the surrounding country, stimulating it to industry and

All this has come about through the John L. Roper Lumber Co.'s railway, built from Mackey's Ferry down amid primeval forests 30 miles to the place on Pungo River where Belhaven now stands, in order to obtain another water shipping vides a short route between Belhaven and

especially distinguishes the country round about, but the wonderful drainage work that has been accomplished by John A. Wilkinson and Samuel W. Wilkinson, and is being further extended by them. other brother associated with the work is J. E. Wilkinson.

The Wilkinson home place is at Wilkinson Station, on the Pinetown cut-off of the Norfolk & Southern Railway, which pro-

Washington, N. C., which latter is on the lishment of a State drainage association, main line. Sam Wilkinson lives on the place, where he and his bothers were born and reared, the farm then being only 50 acres in extent. His brother, John A., resides in a fine new home at Belhaven. The brothers now own about 25,000 acres of land, which they added by degrees to the original tract within the last 10 years, most of it being swampy and hitherto considered valueless, excepting for the timber growing thereon. Although they possessed a farm, they were also lumbermen, and after cutting out considerable timber several years ago decided to drain upon a large scale the land thus cleared and bring it under cultivation. They believed in the soil, and this faith has been amply sus-

of which John A. Wilkinson is president, and the enactment of a drainage law which provides for the reclamation of lands any where in North Carolina as may be desired by a majority of the owners thereof. The Messrs. Wilkinson, natives of the old North State, as they are, have (in addition to increasing the value of their lands. and that, too, with a profit on their labors) the keen satisfaction of knowing they were the intelligent and courageous pioneers in a great work which will be of extensive and lasting benefit to the Conmonwealth and their fellow-citizens, besides opening up to settlement vast tracts in which bear, deer and other wild animals now roam, and where the timber and un-

not much colder than that of Florida, the | that the land was susceptible of drainage. mean annual temperature being from 60 65 degrees, the same as that of South Carolina and the middle counties of Georgia, Alabama and Mississippi. This is because of the proximity of the land to the sea, which latter in the latitude of North Carolina is much tempered by the warming influence of the Gulf Stream. Indeed, the general appearance of the country is not unlike Florida. Occasionally the long, streaming gray moss peculiar to the latter State is seen upon the trees, and the swampy, tangled woods suggest the subtropical region.

It was about three years ago that the Wilkinson brothers began their extensive drainage work, which was to place them so

Only one mile had been cut when it became necessary to build a six-foot dam to retain enough water in the canal to float the dredge. Within another mile or so an other dam had to be erected, and after five miles were cut the total drop of the water in that distance was discovered to be 12 feet, an average of more than two feet per mile.

Since then many other canals and lateral ditches have been cut, the former carrying the water out into the Pungo River. Other dredges were built to continue this work, two of them being coustructed in the woods at Wilkinson Station, from which point they dug their way out into the river. They were set to work



AHEAD OF DREDGE CUTTING A CANAL.

enterprise. They have built 25 miles of canals from 20 to 30 feet wide, most of them being 25 feet, and from six to eight feet deep. From these canals at intervals of 400 yards are dug drainage ditches across the cleared land, and the water follows them out into the canals and thence into the river.

While the amount of land which the Wilkinsons have cleared and cultivated (2000 acres) is small as compared with their total holdings, their drainage system has made available extensive tracts. It has proved beyond doubt the practicability of draining the territory that was deemed impossible by not a few individuals who witnessed the beginning of the work. but this has been followed by the estab- land, owing to the mild climate, which is

cally impossible for human beings to make their way through them without first using the axe and the knife to cut openings, and then in the undrained sections one must splash along in water.

The farm lands provided by the cutting and marketing of timber and the draining and clearing of the soil are among the richest in the United States. The soil is a black sandy loam, generally from four to seven feet deep, but sometimes it is 10 feet. Then even after it is drained the water underlying it makes it practically proof against drought, and only an exceptionally long dry spell will show its effects upon growing crops. Moreover, it is easily possible to raise two crops a year upon the

State and was also to result in giving the country at large another practical demonstration of what breadth of vision, energy and enterprise existed among native Southerners. They had developed some land in a small way for several years, but now they obtained a large steam dredge and began cutting a canal 30 feet wide and eight feet deep. The excavated earth was made into a road on one side of the canal, and this plan of building a canal and laying the foundation for a roadway at the same time was followed in all the rest of their dredging work, so that both roads and canals side by side now traverse what were until recently wastes untrod by the foot of man. In making this first canal ample evidence was soon found to prove ately after the marketable timber is cut

tained by the outcome of their labor and | dergrowth are so thick that it is practi- | prominently before the people of their on the surface of the ground right where built, and as a canal was cut it filled with water from the saturated soil and then the dredges floated in it, after which it was easy for them to cut and cut and advance, with plenty of water to swim in. The digging of the canal reveals beneath the soil extensive marl beds, the shells of which turned out upon the parallel roads made by the dredges will aid in providing superior highways. Occasionally whole oysters are excavated, indicating that in past ages the entire region was submerged by the waters of Pamlico Sound, yet now the land lies 18 feet above its level.

One of the most interesting parts of the land reclamation work is its preparation for farming. This work begins immediia

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and taken out. Then the ground is left covered with stumps, besides numerous small trees and underbrush, together with some occasional large timber not fit for lumber manufacture and not worth the cost of removal. All this material, which, if it could be profitably gathered and marketed, would supply a good-sized town with kindling wood for a long time, is then burned just as it lies, destroying weeds and other obnoxious growths, after which corn is planted by a primitive method, that of poking holes in the rich soil with a stick and dropping in the seed. This is the first year's crop, and it has yielded 50 bushels of corn per acre, the stalks grow-

cotton two bales per acre. As many as cypress trees, which were to be felled later 165 barrels of potatoes (two and one-half bushels, have been raised on one acre of this rich deep soil. At least 75 barrels, or from 175 to 190 bushels per acre, can be expected, it is said. There may also be grown from 1500 to 2000 pounds of seed otton per acre. The cotton stalks are often eight feet high, and the cornstalks there a larger trunk, some times a foot or are so tall and strong that a full-grown raccoon has been seen to climb them and cling thereto while comfortably dining All this was to be burned over after the upon choice roasting ears.

A singular thing about this rich farming country is that little hay is grown by the

and sent to the shingle mills. Along one bushels to the barrel), or a total of 400 side of the tract extended a large drainage canal, and at regular intervals drainage ditches divided the land gradually, taking from it the surplus water it contained and thus making it fit for cultivation. All over the ground for the entire two square miles lay brush and small trees, with here and more in diameter, but of a character which it would not pay to take to the sawmills. standing cypress had been gathered, and then corn was to be planted on the whole

of water, as from a faucet, followed the d and trickled down into the stream flowing along the bottom of the drain. It was thus easy to understand why flowing wells existed on the streets of Belhaven. and why practically all of the houses there do not have cellars, but are mounted on brick piers. John A. Wilkinson's home is thus something unique in the town, because it has a cellar, although situated immediately beside the Pungo River.

The trip to the clearing, where we how the big canals and ditches are made and also how the roads are constructed along one bank of the canals, was made clearing, or between 1250 and 1300 acres. on a flat logging car, upon which chairs



PUMPING WATER OVER DAM TO FLOAT DREDGE

ing up amid the stumps and fallen timber | farmers. Some of them raise none at all, larly, but strong and flourishing. The next plow on account of the remaining stumps, recourse is again had to the stick-and-hand method of planting, but by the time a third year's crop is to be put in, plowing can be done and the ordinary farm machinery used, because the stumps have decayed and no longer constitute obstacles to cultivation.

When the land is thus finally converted into farms it is found advisable to use fertilizers upon it, because so much greater

promiscuously, and more or less irregu- but buy it from distant points, paying for it from \$1.25 to \$1.50 a hundred pounds year, it being still impossible to use the The Wilkinsons raise some hay, but most of the farmers devote their attention to cotton, and the cultivating of other farm supplies is also neglected for the one crop that is peculiarly Southern. This experienced agriculturists condemn, arguing that the farmers should supply the home demand for agricultural products first of all, looking to other markets only after local needs are supplied. The neglect of hay-growing for cotton is only one instance of the indifference of Eastern North Carovields can then be obtained than if it is ling farmers to meeting local requirements.



BEHIND THE DREDGE AT WORK.

S. W. Wilkinson, who is the farmer of the were placed, this vehicle being pushed by pursued resulted in the crops paying for the work done upon the land to redeem it. the balance at the end of five years showing a profit, in addition to greatly increasing the value of the land.

One of the ditches crossing this tract displayed the black, rich soil to a depth of about four feet to the bottom of the trench, whose straight and vertical sides exhibited no signs of breaking or caving. Indeed, he said that they would not break down. although where they were cut through a more sandy region there was some caving and the ditches were cut more on a slant

triumvirate, said that the methods they a small locomotive used in lumbering and of the type employed by contractors. It was at Wilkinson Station that the journey upon the car began, after an eight-mile ride in an automobile from Belhaven. Proceeding for a short distance along the cutoff toward Pinetown, the train stopped, and the fireman, who also acted as conductor, opened a switch to a branch leading off across the farm lands. The engine pushed us in, he closed the switch behind us, and, leaping aboard, jangled the bell as we rambled along over the logging railroad, which was reasonably straight and substantial, with stout rails and hewn ties



CANAL COMPLETED THROUGH CLEARED LAND.

not employed. Then, too, it is ready for | the growth of at least two crops a year. For instance, large quantities of vegetables may be grown, gathered and shipped in the early spring, and then in May corn or cotton can be put in. Yet it is also possible to obtain three crops in one year. Thus a crop of 200 bushels of potatoes per acre has been gathered by the Wilkinsons from one field, after which corn and peas were grown together on the same land, the peas being sown between the corn rows.

and of the disposition of Southern agriculturists generally to reject profitable advice that they diversify their crops,

In company with S. W. and J. E. Wilkinson I made a trip through much of the drained region and saw considerable of it that was cleared and cultivated. One tract which was in process of conversion from desolate swamp to cheerful, smiling farm was particularly interesting. It was two miles long and one mile wide. The timber fit for manufacture into lumber had Corn has yielded 100 bushels per acre and all been gathered, excepting some scattered bottom, and when he withdrew it a stream rolled over them into the depths of the



CANAL COMPLETED THROUGH THE FOREST.

small roots were plentiful from the growth which had covered the swamp, and seemed to act as a natural binder to sustain the sides of the ditch, although Mr. Wilkinson explained that even where roots did not exist the loam would not cave. To show how the water underlaid the ground those reclaimed tracts, rendering them safe from the effects of long dry weather he pushed a stick into the side of a ditch several inches above the

to prevent breaking. In the black soil | near the main railroad, but which gradually declined in quality until it became a veritable tram line with rails spiked on round sticks of wood, the steel weighing hardly more than 20 pounds per yard. As the engine and car advanced the straightness of the track disappeared, and it also became uneven. Corkscrew-like it wriggled into the wooded swamp with the rails on one side sometimes much higher than those on the other, and with the rude ties sagging in the slough as the wheels slowly

forest, where it was possible to see the swampy region at its worst and to fully comprehend the problem which presented itself to the Messrs. Wilkinson when they began the experiment of drainage. At first, after leaving the cultivated lands, no water was visible upon the surface, but as the train proceeded the ground became damp, then wet, with small puddles here and there, and finally all wet, excepting immediately around the bases of the larger trees, where their roots had lifted small sections of the soil out of the morass. The undergrowth was thick, and so tangled that it seemed impenetrable.

After entering upon one branch and then another, all the time turning to the left, the small train and its burden of half dozen passengers besides the engineer and fireman came upon a piece of track that reminded one of the tortuous outlines of a grapevine. Somewhere at the end of this in the depths of the forest was a skidding machine, or "skidder," as the lumbermen called it, which is used to pull logs out of the woods up to the track, where they may be loaded upon flat cars and taken out. By and by, after the engine and car had puffed and creaked along slowly for some time, the position of the skidder was revealed by clouds of steam and the voices of the loggers became audible. Then around an abrupt curve the odd machine came into view as it tugged away at a heavy log some distance off to one side of the track. A wire rope more than 100 yards long and with a hook at its free end was hitched about the log and the drum on the skidder was winding up the stout cord while the heavy piece of timber came smashing through the undergrowth, mowing down brush and breaking and crushing the saplings. It caught once or twice, but the loggers speedily detached it and it soon dangled from the end of a crane over a pile of similar timber beside the rails, and was then dropped upon the heap. There is something thrilling about seeing one of these big logs pulled by the rope come tumbling through the bushes and small timber as lightly almost as if it were a toothpick and be dropped carelessly upon the big woodpile. Of course, the strain upon the skidder is tremendous, and it is guyed and anchored firmly, be sides having legs which reach to the ground on either side of the car that conveys it wherever its services are required. strength lies in a steam engine supplied by a vertical boiler.

From the woods by means of the tramroad the logs are gotten out and sent to the mills at Belhaven, where with band saws and other improved machinery working in harmony they are speedily cut up into lumber for building and other purposes, including the manufacture of blocks for street paving, the black gum wood being found suitable for the latter purpose The Roper mill at Belhaven has a monthly capacity of from 2,000,000 to 2,500,000 feet of lumber; the Wilkinson mill is smaller. An important economy is the use of the refuse wood for fuel under the boilers. In the Roper plant there is a battery of six, and from the sawmill the waste is conveyed to a machine which cuts it into small scraps, which are carried by air pressure through a large tube to the furnaces. There are openings in this tube, each communicating with one of the huge fireboxes, and fresh fuel may be dropped at will upon either of the fires. All the waste is thus disposed of and a fuel that costs nothing except for the handling and which leaves but little ash is provided. The plant is operated wholly on the product of the woodlands. The Roper Company also has several other mills at various points, including quite a large one at Newbern and it owns 600,000 acres of timber

land, besides having timber rights on 200,-000 acres more.

There are now nine drainage districts with a total of about 200,000 acres in process of formation, in North Carolina under the auspices of the drainage association and the State Geological and Ecomic Survey, of which latter Dr. Joseph Hyde Pratt, State Geologist, is head. Contract for dredging in Moyock district, near Moyock, in Currituck county, was recently let, as previously reported in the MANU-FACTURERS' RECORD, to the American Steel Dredge Co. of Fort Wayne, Ind. This district has just begun. The usual surveys will have to be made to determine the possibility of drainage and the manner thereof, after which a report will be made and the regular course followed to begin dredging.

Lake Mattamuskeet.-This district has about 120,000 acres, including the lake, which has an extreme length of approximately 15 miles and an extreme width of about 8 miles, covering something like 50,000 acres. This is in Hyde county, Belhaven. The district is organized and survey made.



J. A. WILKINSON'S RESIDENCE AT BELHAVEN, N. C.

work demands the handling of 733,000 cubic yards of material, and the district contains about 10,000 acres. The Carolina Land & Lumber Co. at Moyock owns 12,000 acres in this county, and it is intended to prepare their land for farming as soon as the principal canals have been finished. A demonstration farm to exhibit the fertility of the soil is to be established. It is said to be especially adapted to the cultivation of corn, potatoes, onions and celery.

About 50 miles of canals will be dug of an average depth of eight feet and from 18 to 36 feet wide at the bottom. These will be leveled and graded, so as to provide a good system of roads. This reclamation work is being done under plans and specifications prepared by the drainage division

Pungo No. 1, Pungo No. 2 and Pantego Districts.-These are in the region where the Wilkinsons are doing their work, and John A. Wilkinson is in charge of all three. The first district is in Washington ounty, between Pinetown and Belhaven, which latter is in Beaufort county; contains about 20,000 acres. The second adjoins the first, but is in the last-named county, and it contains about the same acreage. The third is also in Beaufort county, and has from 10,000 to 15,000 acres north of Belhaven.

Mosely Creek.-This district lies in Craven county, and has about 12,000 acres. A preliminary survey has been made.

Toisnot .- Here a canal has been dug through the swamp so that the drainage of the district has been practically effected.



LAKE MATTAMUSKAT, 15 MILES LONG, 8 MILES WIDE, TO BE DRAINED.

of the United States Agricultural Depart- It is in Wilson county, a few miles from The land redeemed will be divided the town of the same name. into 40-acre tracts, but it is stated none will be offered for sale until it is in fit condition for sure crops and it has been demonstrated what it will yield as well as the average annual earning capacity per acre. It will cost about \$150,000 to carry out the Moyock development thus de-

Other districts are as follows:

Bear Swamp, in Chowan county, near Edenton. It contains approximately 5000 acres. Bonds will soon be offered for sale and contract let for making the canals

Lake Phelps.-The work of forming this

Among other districts which are to be established are these: Creswell, in Washington county; Rich Square, in Northampton county; Dover, in Craven county; Lyon Swamp, in Pender and Bladen counties; White Oak Swamp, in Bladen county: Chadbourn, in Columbus county, and Angola Bay, in Pender county.

The wide interest in drainage work was hown by the attendance of delegates from 32 counties at the second annual drainage convention, which was held at Newbern November 11 and 12, 1909. Counties represented other than those before mentioned erses these new lands, is one of the pro-

herein were Pasquotank, Perquimans, Dare, Tyrrell, Bertie, Martin, Pitt, Pamlico, Gates, Jones, Onslow, Carteret, Lenoir, Duplin, Hertford, Sampson, Robeson, Cumberland, Brunswick, New Hauover, Greene and Edgecombe, Besides. there were appointed by the Governor 84 delegates at large.

At this convention Dr. Pratt described what was accomplished since the Geological Board four years previously authorized the investigation of the worth of swamp lands for farming and the feasibility of draining them. Much of this vast territory belongs to the State Education The investigation included an inquiry into the quantity of peat in some of the swamps, and whether it was of marketable quality. It was found that wherever the land was of sufficient agricultural value its drainage could be accomplished. and that of 3,000,000 acres of swamp land in the State, at least 1,000,000 acres are worth reclamation. At the time of his address arrangements were being made to drain 300,000 acres, and since then the total has been increased. The completion of this work will make arable large tracts where in rainy seasons the crops have rotted in the ground and profitable farming was impossible.

Some interesting tables are presented in the report of this second convention show ing the results of draining and cultivating three varieties of land, 40 acres of each The profit at the end of five years kind. from improving a poorly-drained farm of that size is shown to be \$10,678 net, which includes the value of the land (\$2400). which was originally \$1000. The net profit on gum swamp land is displayed as \$5103, the value of the land (\$2400) having been increased from \$200, its initial On open marsh or "pocoson," reclaimed and cultivated in corn and cowpeas the net profit is given as \$4787, also including the increased worth of the land. raised from a valuation of \$80 to a reclaimed worth of \$2000. These examples were given to show possibilities under the State drainage act.

Moreover, drainage will abolish quitoes, make the country more healthful and prepare for agriculture some of the best lands in the State. J. O. Wright, supervising drainage engineer of the United States Agriculture Department, said at the last drainage convention that the State now produced less than 3 per cent. of the entire corn crop of this country, but that the swamp lands alone in North Carolina, if they were properly drained and cultivated, could be made to produce a crop of corn equal to 10 per cent, of all the corn raised in the United States last year.

The securing of settlers for lands which have been drained is a problem which is already being studied by the Messrs. Wilkinson and others interested in the drainage work, including the Norfolk & Southern Railway Co., whose lines will convey newcomers to their future homes in the reclaimed regions. It is believed that there will be many families now living in other parts of the country who will gladly seek to obtain reclaimed North Carolina lands, because of their great agricultural value and the mild climate which this region enjoys. Reduced excursion rates for homeseekers are offered by the railway from such basic points as Cairo, Ill.: Cincinnati, Evansville, Ind., and Louisville, besides Henderson, Owensboro and Paducali, Ky. The price of tickets for the round trip from any of these cities to sundry points in Eastern North Carolina does not exceed \$25, and it runs as low as \$15, the rates from Cincinnati and Louisville being the lowest.

The Norfolk & Southern, which trav-

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gressive railroads in the South. It has a system of about 600 miles of track, and represents a consolidation of several lines, with the original Norfolk & Southern as a nucleus. It includes the Suffolk & Carolina, the Washington & Plymouth, the Raleigh & Pamlico Sound, the Atlantic & North Carolina and the Oriental & Western roads. The main line, upon which are operated commodious express trains on od schedules, is between Norfolk and Newbern, 171 miles. The equipment is new, clean and excellent. From Norfolk to Edenton, 83 miles, the running time is two hours and 25 minutes, including two stops. While stops farther south are more frequent, the through run from Norfolk to Newbern is accomplished in six hours and 25 minutes, or between 12.15 and 6.40 P. M.

A great improvement was recently made by the completion of a long bridge over Albemarle Sound, beginning at a point three miles from Edenton and extending across the water five and one-half miles to Mackey's Ferry. Until this bridge was opened for service about three months, ago all trains were transported on a steam ferry boat across the sound, causing much delay. The bridge has a rolling-lift draw near its northern end and a swing draw near the other. It is most substantially built.

Another example of the enterprising spirit of the Norfolk & Southern is its late purchase of a fine gasoline motor car built of steel, which is operated on the Suffolk division. It is a complete train in itself, combining engine, mail car, express and baggage car, smoker and compartments for white and colored passengers, all in e vehicle, and it is large enough to seat 70 passengers.

The trains of the road, which maintain a high average of punctuality and adherence to schedules, are well filled with passengers, showing that the service is appre ciated and popular, the expresses being especially patronized. The stations are attractive, and the accommodations for meals are good and of reasonable price. All this has grown out of uniting several small lines through a lumbering country, raising the standard generally and making them reliable common carriers. Great ther extended.

and enterprise prompted the fulfilment of this needed plan.

As may be imagined, the Norfolk & Southern has an excellent freight traffic It carries not only much lumber, but its transportation of fruits and veegtables. commonly known as "truck," is very large in the seasons when they are gathered and sent to market. The fish shipments are also extensive. During the two weeks from March 17 to March 31 of this year there were shipped from three points in North Carolina 11,305 boxes of fish, the boxes averaging in weight 275 pounds each. This was an increase of 4044 boxes, or more than 551/2 per cent, as compared with the same period in 1908. The shipments in detail were thus: Edenton, 1834 boxes; Hertford, 880 boxes; Elizabeth City, 8591 boxes, the increase being 781. 408 and 2855 boxes, respectively.

The lines reach, in addition to places hereinbefore named, Raleigh, Golds boro, Beaufort, Wilson, Washington, Ori ental, Plymouth and Columbia, N. C., be sides intervening towns, and Suffolk Munden Point, Cape Henry, Virginia Beach and intervening points, all in Virginia. Recently the Kinston & Carolina Railroad was added to the system; it ex tends from Kinston (which is on the line to Goldsboro) southward to Pink Hill, ore than 20 miles

The officers of the Norfolk & Southers include Harry K. Wolcott and Hugh M Kerr, receivers; E. T. Lamb, general manager; J. A. C. Groner, assistant to the general manager; H. C. Hudgins, general freight and passenger agent: W. W. Crox ton, assistant general freight and passer ger agent; F. L. Nicholson, chief engineer; R. S. Anderson, superintendent of the Northern division; Virgil Walker, superintendent of the Southern 'ivision; T. B. Ogle, superintendent of the electric divisions; M. Manly, treasurer; W. L. Bird auditor; Edward R. Baird, Jr., general solicitor.

Legal arrangements are now under wa to terminate the receivership, which was a result of the panic of October, 1907, and as soon as these plans are fulfilled the activities of the property will be even fur-S. G. WILMER.

ing of the work by letting the construction of the canals by contract and making it a requirement of the contract that the work shall be completed within three years. The State, as has been cited, was making but slow headway in the matter of opening ca nals for the reasons already stated.

The specifications that have just been issued are accompanied by a map showing the location of the canals, although it is stated that the exact location has not been definitely determined. This cannot be done, it is explained, until an extensive and detailed examination of the land traversed by them has been made to ascertain the depth of muck and the character of underlying material. This is to be done in advance of the excavation and the most feasible route selected. In determining the location of the canals the board makes it clear that it is the intention to follow the general direction shown on the map, but they expressly reserve the right to vary the course if a better and cheaper route can be determined. The engineer in charge is to make borings and have side stakes set at intervals of 100 feet and keep this work at least one mile in advance of the excavation. The drainage engineer is to furnish the contractor from time to time an accurate profile showing the surface of the ground, the depth of the muck, and, clay and shells and the thickness of the rock.

It is provided that the bidders shall bid on each canal separate, and on the work as whole; they are to bid on the rock exca vation and the dirt excavation separately and as a whole. For example, it is estimated that there will be 18,000,000 cubic yards of dirt and 6,000,000 cubic yards of rock to be removed. All canals are to connect with Lake Okeechobee, and the canals are designated as follows: The North New River Canal, which will be 45 miles in length, from 50 to 65 feet in width, from 8.5 to 10 feet deep, excavation 4.774,375 cubic yards; the South New River Canal. 57 miles long, 50 to 70 feet wide, 10 to 13 feet deep, excavation 5.855.785 cubic yards; the Hillsboro River Canal, 50 miles long, 50 to 60 feet wide, 10 to 13 feet deep excavation 6,101,310 cubic yards; the Miami Branch Canal, 22 miles long, 50 to 60 feet wide, 8 to 8.50 feet deep, excava tion 2,282,026 cubic yards; Gulf Coast Canal, 60 miles long, 40 to 60 feet wide, 8.25 to 9 feet deep, excavation 5,052,430 cubic yards; total length, 238 miles, and total excavation 24.065,926 cubic yards. Hardly anything of essential information is left out of the specifications as issue from the press of the State printer. It is stated briefly that the need for the drainage arises from the overflow of Lake Okeechobee. This lake, it is stated, covers an area approximating 500,000 acres, and is situated in the northwest part of the drainage district, and after heavy and continued rains it overflows its banks and floods the land, commonly called the Everglades, which lies to the south and the southeast of the lake. It is for the purpose of lowering the level of the lake and controlling its flood waters and for affording an outlet for drainage that the canals are being constructed. The board casts an anchor to windward, however, by inserting a provision against the letting of a contract to cover the entire system of canals which have been inked out on paper, as follows:

"The board has available, it thinks, sufficient funds to construct all the work provided for in these specifications, but the number of miles to be awarded will depend somewhat upon the price submitted in the If all the canals are not proposals. awarded, they will be let in the following order," and then the designation of the

credit is due to the men whose foresight from the original plan only in the hasten- portant is made in the order previously numerated, except as to the Miami Branch Canal. This is designated as third in the official preference.

This provision would lead the public to believe that the drainage commissioners are by no means certain as to the ap proximate figure that will be submitted for the work. As a matter of fact, there was such a wide variance in the bids that were offered on a previous occasion, being last December, when bids were called for, that it is difficult to understand how experienced contractors could reach such widely divergent views of the cost of such This may be explained partially work. by the fact that some of the bidders visited the Everglades and made an examination of the soil, and others did not. The cost of removal, so far as the operating expenses go and the amount possible for given time and certain machinery, is said to be much lower than other dredging, and not to be compared to that character of dredge work done by the Government in deepening rivers and harbors. The average cost of removal to the State, without taking fixed costs into consideration, was less than four cents a cubic yard. Dredging was probably never done cheaper than this. But the drainage commissioners know that it will be quite another matter with the contractors who will eventually do the work for the State of Florida. In the first place, they will have to buy machinery which is especially adaptable to this character of work; there will be so delay in the building of it, and the State expects to either lease or sell its own dredges to the successful bidders. For this reason the specifications contain descriptions of the dredges now in use by the State, and blanks are submitted for prosals to buy them and to lease them. drainage engineer estimates that it will require from 60 to 90 days for the successful bidders to get their equipment ready to begin work. Bids will be received at Tallahassee until 10 o'clock of the forenoon of June 15, and the bids are to be opened and read before the board. The successful bidder or bidders will be notified immediately, and they will be required to make an acceptable bond upon contract within 15 days after having been notified that their proposals have been accepted. The contract shall cover 15 per cent. of the amount of the contract, conditioned upon the faithful performance and execution of the work. The bids are to be accompanied in the first place by a certified check for an amount equal to 2 per cent, of the amount of the bid, the check to be made to the treasurer of the State of Florida. The usual conditions covering the making of such contracts of importance; concerning the employment of labor and the payment of it, the assumption of damages, etc., are set forth in clear and unmistakable terms.

It is anticipated, as a matter of course, that the number of dredges will be materially increased, and necessarily so under the conditions of the contracts. It is said to be the purpose of the drainage commissioners, however, to use all reasonable pressure to hurry the work, and it is con fidently predicted by some who are well acquainted with conditions that the work will be completed within 18 months after it is begun. The demands of the land companies and thousands of people who have purchased farms in the Everglades are behind this pressure for hastening the work. The demand for lands in the Everglades and consequently all other lands in Florida continues at a rate that at times becomes alarming to the old settler. It is recognized by those who most earnestly desire a healthy and wholesome development that all purchasers should thoroughly understand the conditions before they buy, and this has been hammered at so much

# To Dig 235 Miles of Drainage Canals in Florida.

[Special Correspondence Manufacturers' Record.] Miami, Fla., April 30.

The Board of Drainage Commissioners of Florida, composed of the Governor, the Comptroller, the Attorney-General, the Commissioner of Agriculture and the Treasurer, have adopted a set of specifica-

will approximate in length 235 miles, yet to be constructed. The drainage work has been in progress under the direction of the drainage commissioners for upward of two years, and in that time some thirty-odd miles of canals have been opened. The slow progress has been due to the fact that the work has been hampered by a lack of funds and a very limited mechanical out-But under a recent agreement reached between the State and the large land companies with holdings in the Ever glades the suits which were being prose cuted by the land companies against the

tions upon which bids for the construction of a system of drainage canals for the drainage of the Everglades will be asked. There are to be five main canals, which State attacking the constitutionality of the drainage tax have been withdrawn by the land companies agreeing to advance the amounts accruing under the drainage tax to complete the drainage system. This tax of five cents an acre is levied on an area of about 4,000,000 acres. The law was passed in 1907, and under the agree- and the scope of the work is increased canals as they are regarded the more im-

ment the tax accruing for five years is to be paid and advanced as needed to the commissioners. This insures a drainage fund of \$1,000,000 aside from the amounts that the State may accumulate through the sale of lands, for which there is at present a great demand, ranging from \$5 an acre upward, according to location with regard to the proposed canals. A few months ago when this agreement was reached the State engaged the services of J. O. Wright as chief drainage engineer. Mr. Wright had been in the reclamation service of the United States Government for a number of years, and has had a broad experience covering many years of active, practical work and observation with the great drainage and irrigation projects of the world. No better man could have been selected for the great work to be done in Florida. Mr. Wright began immediately to make an investigation of the area and to give atten tion to the location of the canals. After going over the territory be returned to Tallahassee and prepared a set of specifications for the drainage work under the new arrangement. The system of canals which had been laid out previously, however, under the guidance of Governor Broward, was not materially changed as to location. The broadening of the project

that at least some of the land companies are taking all possible care to prevent any misrepresentation. During the past week one of the land companies brought a Puilman carload of Missourians to Miami free of any cost. This bit of enterprise cost the land company some \$3000, but the value of it as an advertising plunge will prove to be, in all likelihood, more fruitful of real results than any other avenue through which the same amount have been expended. The wonderful country is enough to attract an entrance, but when so many hundreds of persons have such a vague and entirely erroneous idea of the Everglades, the lay of the land, its disadvantages as well as its advantages, it is most desirable that they should have me actual knowledge before investing, for it is but natural that there will eventually be some disappointment, and it is much wiser for the land companies and the people of the State to take time by the forelock and do what they can to make those persons assume in the beginning the burden of the responsibility, so that it may be properly placed if that rueful day should arrive when they will regret their investment.

This is the only non-resonant note in the chorus of prosperity in Florida, which is due directly to the drainage work. It is coming to be recognized by all as the ans of bringing thousands of settlers to Florida and of putting millions of dollars of taxable property on the revenue lists of the State.

Under the conditions as previously set forth it will be early in the fall before the amplified scheme of canal cutting will be put into operation. J. H. REESE.

## KENTUCKY OIL FIELDS.

## Healthy Revival in Developmental Operations.

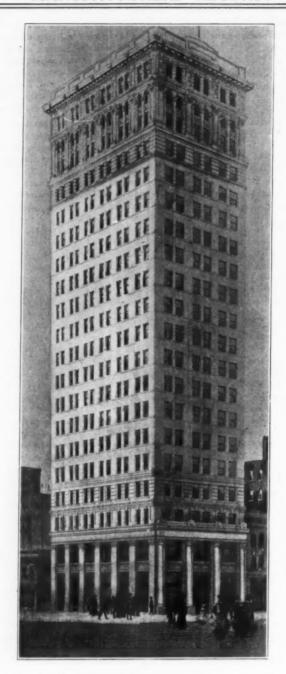
[Special Cor. Manufacturers' Record.]

Barboursville, Ky., April 25.

A healthy revival is being manifested in Kentucky petroleum developments. The on is highly favorable for development work, and lately a number of new operators have started work in the established districts and in extensions of the pro ductive area.

In the lower Kentucky districts new capital has entered the Wayne county fields, and within the next few weeks number of drills will be moving. The field is gradually being widened, and much productive territory is in sight as a result of recent extensions of the old limits of production. Success in drilling outlying districts has encouraged operators to broaden the scope of operations, and several new centers for development work are being formed. Since the beginning of the month completions of the productive class have been steadily increasing in number, the trend of the drill being toward districts which are just being opened, and constituting extensions of the older pools. The stablished pools are still capable of yielding good producers, however, and among recent completions several in the middle class are credited to districts which have been pretty well punctured in the past.

Some of the new additions to the drilling force are testing the possibilities of untried fields, and this work will be of much importance as furnishing a line-up on possible future sources of production. During the past few days an extended leasing campaign has been conducted in counties of Eastern Kentucgy bordering West Virginia, and in Western Kentucky contiguous to proven fields in that direction. Lawrence county, the center of the new development work in Eastern Kentucky, several West Virginia companies have acquired leases and will drill a number of test wells during the summer months. As reached by the pipe line extensions the oil a possible deep-sand field this section output is increasing, with the coming of lished in pamphlet form.



AMICABLE LIFE INSURANCE CO. BUILDING, WACO, TEX. To be erected; 20-story structure; 50x105 feet; cost complete \$500,000; architects, Sanguinet & Staats of Fort Worth, Dallas, Houston and San Antonio.

on the result much interest is centered. One or two test wells have been drilled and a deep-oil sand proven to extend through the district. This sand is proounced identical to the formation in West Virginia, which has proven so productive. and if the tests which are soon to be started reveal oil in paying quantities in the same sand a widespread drilling campaign will result.

In the western end many new lease have been taken up by local, Northern and Eastern operators in the counties of Logan, Barren and adjoining districts. drilling campaign is being started in Logan county to follow up the successe which attended drilling last season, and developments will be on a broader scale than formerly. Oil and gas have both been found in this section, and efforts will be made to develoup these resources in sufficient quantities to warrant the establishment of a market. Among new development forces in Logan county is a company to utilize the natural-gas wells which have been drilled and pipe the product of wells to neighboring towns.

In the productive districts of Kentucky

of the State will be tested for deep oil, and | better weather and more favorable conditions for development work. The only retarding feature is the low price of crude oil, the prevailing figures being the lowest quoted since a market was established. The two grades of Kentucky crude oil are quoted at 72 and 45 cents per barrel, respectively, by the Standard Oil Co., and 75 cents per barrel on the better grade by independent purchasers. There are now in storage in the various districts over 300,000 barrels of the high-grade crude

W. S. HUDSON.

## To Erect Fertilizer Plant.

A dispatch from Chester, S. C., states that representatives of Swift & Co., Chieago, have inspected a site at Chester, which will be utilized for the erection of a fertilizer mixing plant. The site is acessible to the Seaboard Air Line, Southern and Carolina & Northwestern railroads, and it is said to be the intention of the company to erect a plant of 10,000 tons

The annual addresses of President J. N. King and Secretaries Wilson M. Hardy and J. D. McCartney of the Manufacturers and Merchants' Association of Floyd county. Georgia. Rome, have been pub-

## TWO NEW STEAMSHIPS.

## Merchants & Miners' Company to Add to Its Fleet.

The Merchants & Miners' Transportation Co. has awarded contract for two modern single-screw steel coastwise steamships. the successful bidders being the New York Shipbuilding Co. of Camden, N. J. Thesa steamships will be built for both pass gers and freight, and especially for the Baltimore-Savannah-Jacksonville line.

The construction of these ships will be of the hurricane-deck type, with three co plete decks and a promenade deck, fitted with double bottom and water-tight com partments, and equipped with every modern appliance for safety and convenience Each of these steamships will be of the following dimensions: Length over all, 333 feet; molded beam, 46 feet; mean load draft, 18 feet; tonnage, 3600. They will be driven at a mean speed of 13 knots by triple-expansion engines, the steam being supplied by four single-end return tube Scotch boilers, with sufficient reserve power to increase the mean speed when required.

The passenger accommodations on these steamships will be located on the prome nade and hurricane decks, having stateroom accommodations for 132 first-cabin passengers and 20 second-cabin passengers. The first-cabin staterooms will be all outside rooms, large and well ventilated, with upper berths folding, supplied with running water, electric light and every modern convenience. Most of the staterooms will be communicating, so that they can be used single or en suite. There will also be a number of specially-fitted staterooms with brass beds, connecting baths and toilet conveniences, and also a number of rooms connecting with shower baths and toilet conveniences, these special rooms being similar to compartmts and drawing-rooms in a modern Pullman car. The stateroom accommodations throughout will be par excellence. A large dining saloon will be provided, located about amidships on the promenade deck, with seating capacity at the tables for 82 persons. The interior woodwork of the dining saloon and social hall will be of the finest dark mahogany. The smoking-room, situated on the hurricane deck forward, will be a very large. cheerful room, finished in teakwood. The furnishings of these ships will be of the best, and in perfect harmony with the particular woodwork. The large covered decks will be particularly attractive to the traveler, and will form a grand promenade. The captain's, officers' and crews' quarters will be most comfortable, and particularly arranged for their convenience

The Baltimore-Savannah-Jacksonville Line, on which these two steamships will be placed when completed, has been extremely popular with the traveling public since its inception, and with these two new steamships, which will go into service in about a year's time, will give to the traveling public between the South and Baltimore as fine, if not the finest coastwise service to be had.

For the convenience and quick handling of freight special attention has been given to the arrangement of these steamships, which will facilitate the prompt handling of their cargo.

The Merchants & Miners' Transportation Co. is the largest independent coastwise steamship line in this country, having now in operation 23 modern steamships. operating over about 3500 miles along the Atlantic coast, and carrying passengers and freight between Baltimore, Boston and Providence (via Newport News and Norfolk): between Baltimore, Savannah and Jacksonville: between Philadelphia and Savannah, and between Philadelphia, Fall River and Providence.

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# COTTON OIL MILLS AND SEED FOR REPLANTING f. o. b. cars here prevail:

By L. A. RANSOM of Atlanta.

[ Written for the Manufacturers' Record.]

South are entirely dependent upon the supply of cottonseed to run their mills, as they do not use any other raw materials in their crushing operations. The most thoughtless American citizen would, therefore, see that if the farmers do not have sufficient seed for planting, and if the mills did not have the seed, that it is to the interest of the mills to furnish the farmers with the seed. It is inconceivable that anyone should think differently.

The proof of the good relations existing between the oil mills and the farmers, if proof is needed, can be found in the annual proceedings of the Interstate Cotton-seed Crushers' Association's annual meeting, held at Jamestown, Va., in May, 1907, which meeting followed immediately after unfavorable conditions to the cotton crop in that year. The following resolutions were unanimously adopted by the associa-

"Whereas, the unprecedented and unfavorable weather conditions for several months which have prevailed throughout the entire cotton belt has amounted to what is really a national disaster and threatens alarmingly the success of what is everywhere recognized as among the world's most important natural productions, the cotton crop of the South; now be it hereby

"Resolved by the Interstate Cottonseed Crushers' Association, in annual convention assembled, That our earnest sympa thies are extended to our friends and coworkers in the South's interstate development, the cotton producer and cotton worker throughout the entire country; and

"Resolved, That we tender them our co-operation in the strenuous efforts they are making to repair the great damage done them, and to restore in the few days now remaining in the rapidly-passing planting season, the crops destroyed or yet unplanted, and that we invite their correspondence in order that we may endeavor to supply them, from such stores of seed as we have retained for that purpose, with the necessary seed for planting and seconding their efforts in the restoration of that great plant upon which more than any other the happiness and comfort of the whole world depends."

There is sometimes, during the seedselling season, some friction between the oil mills and the farmers, which is nothing more than differences of opinion between the manufacturer, the buyer and the farmer, the seller of the seed, regarding prices, but whenever the farmer needs help that the oil mills can give him it has always been, and doubtless always will be given by the oil mills, if for no other reason on the part of the mills than that of

During the season just closed the oil mills have paid exorbitant prices for seed. This was brought about by lively competition and by the constantly-advancing markets for the products, and consequently what seed the oil mills may have on hand have cost them very high prices, and, of course, if it is necessary for the mills to return the seed to the farmers they will do it, and the farmers will hardly expect them to do it at less than cost.

Now and then some narrow-minded mill manager will endeavor to take advantage of the farmers' necessities and charge them a high price for the seed, more than the actual cost. There are selfish men in all business, but in the cotton-oil business they are the exceptions. Throughout

The cottonseed-oil manufacturers of the | ing closed down and stopped work until they could ascertain just how many seed the farmers would need, and this fact was advertised throughout the territory. It was soon learned, however, that the reports of the damage were probably exaggerated, and as the mills were called on for only a comparatively small amount of seed they resumed operations, but not until they were satisfied they had filled the farmers' requirements for seed. It is expensive to close down a mill, and in doing this the mills certainly showed a desire to do everything possible to help the farmers.

> Where seed are drilled it usually requires for planting about one bushel to the acre, but in order to provide for the possibility of replanting, the farmers generally reserve about two bushels, and, although they realized very high prices for their seed this year, they doubtless followed their usual rule in this respect, which accounts for the fact that only to a limited extent were the oil mills called on for seed, and those were promptly supplied.

## The Birmingham Iron Market.

[Special Cor. Manufacturers' Record.] Birmingham, Ala., May 2.

While there has yet been no definite nark reached that could safely be considered the base price, it is generally conceded that \$12 for prompt and nearby shipments the market price, with \$12.50 being asked for third and fourth quarter busi-Nominal figures continue to be ness. quoted by some interests, and business is being taken right along at higher figures than \$12 for prompt shipment. As a rule, no one is pressing the sale of his product for delivery through the last quarter. However, no refusal to quote is recorded, and it is understood that that delivery can be grouped along with second and third quarters if asked for. Probably 1000 tons a day will cover actual sales during the past week. The most of this tonnage is composed of car lots up to 100 tons. There has been some talk of \$11.50 to \$11.75 per ton iron, but the writer actually knows a purchaser offering \$11.50 per ton for 5000 to 6000-ton lot, on which proposition he was turned down. For strictly standar! Alabama iron it would be unfair to say that the price at present is lower than \$12 per ton at the furnace. Production has and is being very much curtailed. Two important interests are now seriously considering blowing out at least two furnaces in the immediate future. This, of course, is only in line with action already taken by certain of the Northern interests. Southern charcoal iron is quoted at \$22 to \$22.50 per ton at the furnace.

During the past week Kansas City placed an order for 4000 tons of water pipe; also St. Louis for 2000 tons. Some small lettings for Southern cities are recorded. The writer, in conversation with an official of one of the important pipe interests here, was advised that his orderbooks were in good shape, and that prices are firmly held at recently quoted figures, with upward tendency. Following are prices quoted per net ton f. o. b. cars here: Four-inch, \$24; 6, 8 and 10-inch, \$22 12-inch and over, average of \$21, with \$1 a ton extra for gaspipe; fittings, \$60.

There is but one characteristic of the old-material market, and that is continued dullness, with downward tendency. While this is not very encouraging, yet it about sounds the situation. Dealers are unwilling to pile more scrap under present conditions. The buyers of the country seem to

lowing nominal quotations per gross ton

Old iron axles, \$18.50 to \$19. Old iron rails, \$14.50 to \$15. Old steel axles, \$16.50 to \$17.

No. 1 railroad wrought, \$11.50 to \$12. No. 2 railroad wrought, \$10.50 to \$11. Dealers' wrought, \$10 to \$10.50. Old steel rails, \$11 to \$11.50.

No. 1 machinery, \$10 to \$10.50.

No. 1 steel, \$11 to \$11.50.

Old standard car wheels, \$12 to \$12.50. Light castings, stove plate, \$8.50 to \$9.

On Thursday afternoon, the 28th of April, the Alabama Coal Miners' Association met in the auditorium of the Chamber of Commerce, where the matter of increase in wages was thoroughly threshed out. It was finally decided to increase the wages of miners and other day men 5 per cent. over the present Pratt scale. This means an additional 21/2 cents per ton in the mining of coal. Some 18,000 to 20,000 workmen in the district will be affected by this increase in wages. The increase was wholly voluntary on the part of the oper-

## INDUSTRIAL GADSDEN.

Municipality and Business Men Aggressive for Progress.

[Special Cor. Manufacturers' Record.] Gadsden, Ala., April 30.

Situated in the northwestern section of Alabama, 90 miles south of Chattanooga, 60 miles northeast of Birmingham and 90 miles west of Atlanta, is the thriving city of Gadsden. It is prospering because of the alertness of municipal authorities and the aggressiveness of live, wide-awake business men. Through the Business Men's Club a cash bonus of \$150,000 was offered last year to the Southern Iron & Steel Co. as an inducement to locate a plant here to employ at least 3500 men. Of the bonus, \$75,000 was to be paid as soon as the plant began operating, and the balance as soon as the plant should be running at its full capacity. The plant, representing an outlay of several million dollars, is already operating several departments, and the first payment of \$75,-000 has recently been made by the Business Men's Club. On April 12 the con pany had on its payroll 2400 men, and, with the completion of the wire, rod and nail department, it will be employing 3500 workmen. A great amount of the machin ery for this branch is already installed, and it is only a question of a short time before the latter departments will be com-

The people of Gadsden are so well pleased with the results of the offer made to the Southern Iron & Steel Co. that they have recently made another offer of a cash bonus of \$150,000 to the Alabama Consolidated Coal & Iron Co. to establish a plant adjoining its present property and to equal in size that of the Southern Iron & Steel Co. This proposition is now being onsidered by the officials of that company.

With new industries coming into this city and the increased population which of necessity must come with every new enterprise of any size the question arises, How will Gadsden house the operatives of these industries? Personal inquiry developed the fact that at present there is hardly an untenanted house in the city, notwithstanding the fact that new hom stantly being built. Since last November there have been erected about 600 dwellings, yet it is conservatively estimated that 1000 more dwellings must be erected in the immediate future to take care of the operatives of the Southern Iron & Steel Co. An official of the steel company stated that it was even now a problem as to how the company will be able to house the addi-Georgia those mills that were still crush- have the "greatest sufficiency." The fol- tional operatives and their families who growth, Mr. E. T. Hollingsworth, presi-

will be coming into Gadsden with the completion of the plant.

There has been erected at a cost of \$100,-000 a new postoffice, and an additional appropriation of \$90,000 has been asked for the purpose of adding two more stories in order to provide suitable quarters for the Federal offices. With the completion of the addition this community will have a postoffice that would be a credit to any

The Louisville & Nashville Railroad has just completed and is now using in contion with the Nashville, Chattanooga & St. Louis Railway a handsome depot. This structure has ample facilities as a union depot, and there is talk of the other coads entering Gadsden, the Southern Railway and the Chattanooga Southern, using it. This structure, including the land, cost approximately \$100,000. The Louisville & Nashville Railroad has also just practically completed a new bridge across the Coosa River at a cost of \$75,-000. This improvement was absolutely sary because of the increase of traffic through the city.

During the past two years cement aidswalks have been laid on all of the principal streets at a cost of \$50,000. A short time ago the Graves-Matthews Company of Birmingham secured a contract of \$50,-000 for paving streets in the business center. The material being used is vitrified brick, and the work is well under way. is expected the streets will be opened for traffic within 60 days.

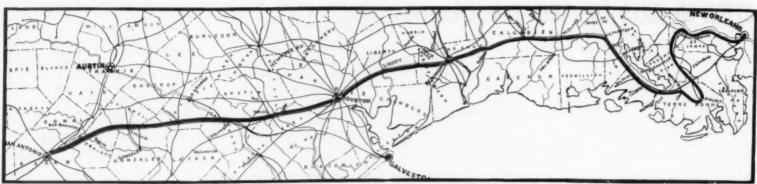
There is a movement to improve Locust street its entire length. The Louisville & Nashville Railroad enters Gadsden through this street, and has the right of way. The streets in the residential sec tion are to be graded, cherted and then treated with a preparation of asphalt. An Atlanta concern, it is understood, will grade and treat Forest avenue with this patent asphalt preparation. The contractrs claim that this preparation will lay the dust and keep the street dustless for one year, and the cost of treating the streets with this prepartion is said to be much less than it would cost the city to keep the streets sprinkled with water. If this preparation proves a success on Forest avenue the entire residential section will be treated in a like manner.

This city owns and operates the water works system. At a recent meeting of the City Council the plans prepared by J. N. Hazelhurst, consulting engineer lanta, Ga., were adopted for the rebuilding of the pumping station and settling-basin. This improvement calls for an expenditure of \$50,000, and bids for the work will be opened on May 18, 1910. When the plant is completed Gadsden will have one of the best-equipped water-works systems of any city of equal size in the South.

A bond issue of \$50,000 has been decided on for additional school facilities. It is posed to erect several ward schools, one of these to be near the Southern Iron & Steel Co.'s plant, and another larger building to cost \$30,000.

The Alabama City, Gadsden & Attalia Railway Co., operating a street-car line from Gadsden to Alabama City, and thence to Attalla, has recently put a force of men at work to construct a new line to North Gadsden. This line will be over a mile in length, and will be ready for service some time in June. It will be of great service to those employed at the plants of the Alabama Consolidated Coal & Iron Co., the osa Pipe & Foundry Co., the Campbell Manufacturing Co. and other minor industries along its route. The men employed in these plants number about 1700, and the opening of this branch is eagerly looked forward to.

Speaking of Gadsden's future and



A CONTINUOUS IMPROVED HIGHWAY FROM NEW ORLEANS TO SAN ANTONIO.

One of the big projects of highway improvement in the South is that for a first-class continuous road from New Orleans, La, to San Antonio, Tex. Mr. Sam Park of Beaumont, Tex., is the enthusiastic leader in the movement for this highway, the whole route of which has been traversed in an automobile, with good roads reported in many of the links. The highway swings from New Orleans to Houma, and thence through Gibson, New Iberia, Lafayette, Midland and Lake Charles, La., to Beaumont by way of Orange, Tex., and on through Liberty, Houston, Wallace, Luling and other points to San Antonio.

dent of the Business Men's Club and also president of the Gadsden National Bank, said:

"I believe by the end of this year Gadsden will show an increased population very nearly double what it was two years ago. I think the population within the corporate limits will approximate 12,000, and the population of what is really Gadsden, including suburbs of north, east and west Gadsden, will easily reach 18,000.

"During the past two years we have located a number of new manufacturing plants, such as the Campbell Manufacturing Co., the Southern Shovel Manufacturing Co. and the establishment of the large wire, rod and nail mill. In addition to this, we have built many new and handsome residences and one of the most complete and artistic theaters in the State. A four-story office building is now under contract, the construction of which will be begun at once.

"The future of Gadsden never before looked so bright as it does now. We feel that Gadsden has passed beyond the stage of uncertainty, and, with the establishment of the two steel mills, we are convinced that our population will easily reach 40,000 within the next four or five years. It would put us in the unique position of having two independent steel mills equipped with plants for the manufacture of rods, wire and nails and structural material. The possession of two such plants could certainly not be duplicated in the South."

The Dwight Cotton Mills are at Alabama City, really a suburb of Gadsdeu, and a model mill town of the South. In it there are many first-class houses and comforts provided for the operatives by the Dwight Mills. This plant employs about 1700 operatives, and is one of the best mills in the South, not only in its successful operation, but also in the character of its employes and the generous treatment of them by the company.

MILES C. SHOREY.

## Yellow River Power Co.

The Yellow River Power Co. has been incorporated with a capital stock of \$1,000,000 for the purpose of building a water-power electrical plant on the Yellow River, four and one-half miles from Stone Mountain, Ga. It plans the construction of a concrete dam to develop 1500 horse-power for transmission by electricity. J. B. McCrary, Empire Building, Atlanta, Ga., and associates are the incorporators.

## Ohio Valley Exposition.

The management of the Ohio Valley Industrial Exposition, to be held at Cincinnati August 29 to September 24, has issued an artistic prospectus illustrative of the advantages expected from the exposition for Cincinnati, especially in its relations to the South. Mr. F. B. Davison is commissioner-general of the exposition.

### PLIGHT OF COLLEGES.

## Their Groveling at the Pension Trough of Philanthropy.

[Springfield (Mass.) Republican.] emphatically objectionable is a private pension system for any State university in America. The University of Missouri ought to be ashamed of itself for being on the "accepted list" of the Carnegie Foundation. The principle involved vicious, since there is as much reason for having Mr. Rockefeller pay the pensions of the United States Army or the New York Police Department, or of any other public service, as for allowing Mr. Carnegie to pay the pensions of teachers in public institutions which are, in all other respects, controlled and supported by the State. Since Mr. Carnegie very unwisely decided to admit State universities to a share in his bounty, he has seriously contemplated pensioning the teach ers of the public schools in 10 of the largest cities of the country. The principle of such private intervention in the ess of the State is not only vicious, it is demoralizing in practice, and, if long continued, it must have results gravely injurious to democratic ideals. Yet the uniersity of Missouri is not alone in groveling at the pension trough of the Carnegie foundation. The universities of Michigan. Wisconsin and Minnesota have also been 'accepted." And there are no less than 26 other State universities now clamoring for a place in line. Dr. Pritchett is looking them over to determine whether they are fit to be the beneficiaries of Mr. Carnegie's generosity.

The responsibility, of course, for this degradation of State universities, whose teachers should be pensioned by the State or by nobody, does not rest upon the teachers of those institutions. But while the Republican's sympathy for them is keen, onfesses to have witnessed with a certain grim satisfaction the recent demonstration of what they are up against as of the Carnegie pension funds. For the change in the rules \* \* \* has exposed the system, which has been the main object of our attack. This private pension agency not only disburses funds, but it also seeks to control in some measure the institutions that have come within its financial sphere of influence. It can do this in various ways, and its super visory control is based primarily not only upon the power to drop an institution from the "accepted list," but upon that very provision under which it can change its pension rules from time to time, as experience dictates or the wisdom of its trustees commands. \* \* \* It may be said that while disappointed professors may have a just grievance against the administrators of the Carnegie foundation in matters of detail-to wit, those who unhappily arranged their life insurance in accordance with Dr. Pritchett's advice-it is difficult to accept the view that in general they are

the victims of a real breach of trust. They took their chances when they became the beneficiaries of a private pension fund. And, in our opinion, the future policy of the foundation is to a certain extent "a hazard or a gamble, where each guesses at But the Republican do his peril." "approve." "approve." It advises the Missourl Legislature to withdraw the State university from the Carnegie "accepted list" and provide a State pension fund for the professors of that institution, if such a system be deemed an advisable development of public policy. In any event, whether the professors are pensioned or not, no private individual should be allowed to provide them such an emolument.

## A Sign of Macon.

In token of its desire to co-operate heartily with progressive communities in the territory which it will serve, the Central Georgia Power Co., in preparation for the beginning of the operations of its hydro-electrical plant on the Ocmulgeo River, has offered to supply to the municipality of Macon for five years free of charge sufficient electric current to illuminate a great sign bearing an inscription in keeping with the city's best interests. The company, through General Manager E. J. Cagney, expects the city to erect the sign of steel on the highest point within the city limits, so that it may be visible to everybody coming to Macon, and the company undertakes to illuminate the sign from dusk to midnight, except in ca where, because of excess demands on its power plant, it would not have any power to spare, although such a situation is hardly expected.

## South Atlantic Quarterly.

The current issue of the South Atlantic Quarterly, edited at Trinity College, Durham, N. C., contains articles on South in National Politics," by William Garrott Brown: "Science in Its Relation to the Industrial Development of the South," by Lewis W. Parker; "A Little Experiment in Enforcing a Fourteen-Unit Entrance Standard," by Henry N. Snyder The German Element in the Settlement of the South," by William H. Wanna maker; "The Necessity for Road Improve ment in the South," by Logan Waller "The Antecedents of the North Page: Carolina Convention of 1835," by William K. Boyd; "The Relation of Agricultural Education to Conservation," by John H. Reynolds, and "Conservatism and Progress," by William P. Few.

## Doe River Company's Plant.

The Doe River Lighting & Power Co.
of Elizabethton, Tenn., has awarded contract to the Lowe Construction Co. of
Bristol, Tenn., for the construction of the
dam for its water-power-electrical plant
on the Watauga River. This plant will
be located seven miles east of Elizabethton rule made in England prev
1800, and to determine more ever how extensively this put to practical use at that also to indicate the many ments in the design of slide ing the last hundred years.

and develop 3000 horse-power for trans mission a distance of 22 miles. The dam will be of concrete, 300 feet long, 50 feet high, and have a base of 48 feet, costing about \$77,000; power-house of concrete, 40x100 feet. About \$250,000 will be the total expenditure for dam, power-house, water-wheels and accompanying equipment, electrical machinery, etc. The electricity will be transmitted to the Bristol (Tenn.) Gas & Electric Co., with whom the Doe River Company has contracted to furnish electrical power for distribution. The Doe River Lighting & Power Co. is in the market for the water-power and electrical machinery, and invites bidders on the hydro plant to inspect the proposition not later than May 15, so that bids can be submitted by June 1. The electrical proposition will be considered as soon as the speed of the water-wheels has been de-

More than 250 men of Wake, Durham, Orange, Alamance and Guilford counties attended last week the meeting at Durham, N. C., urging liberal appropriation by the State for road improvement and the employment by each county of a competent highway engineer.

It is reported that a Chicago capitalist has secured 25,000 acres of land in Hampton county, South Carolina, which will be drained and divided into small tracts for trucking purposes.

The Chamber of Commerce of Newport News, Va., is planning a campaign to reclaim thousands of acres of land in Sawyer Swamp, about three miles northeast of the city.

The Chamber of Commerce of Wichita Falls, Tex., has begun the publication of a monthly paper designed to promote the growth of that locality.

The latest bulletin of the Maryland Agricultural College publishes the second annual report of the Maryland State Bee Keepers' Association.

A History of the Logarithmic Slide Rule and Allied Instruments. By Dr. Florian Cajori, Dean of the School of Engineering, Colorado College. Publisher, the Engineering News Publishing Co. Price \$1 net.

The slide rule, one of the machines for minimizing mental labor in computation, has been adapted to almost every branch of the arts in which calculation is required. This work undertakes to give a complete history of the improvements in the slide rule made in England previous to the year 1800, and to determine more precisely than ever how extensively this instrument was put to practical use at that early time, and also to indicate the many-sided developments in the design of slide rules made during the last hundred years.

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## VIEWS OF THE PLANT OF THE NORFOLK PORTLAND CEMENT CORPORATION.







Some time ago the Manufacturers' Record announced the organization and plans of the Norfolk Portland Cement Corporation. It was stated contracts were awarded for steel buildings costing \$150,000, and that the cement machinery, boilers, engines, etc., would cost \$500,000. Construction has been progressing, and three accompanying illustrations present views of the plant, at Norfolk, as it is at present. All the steel work excepting one building has been completed, and three boilers are in place ready for bricking in. One engine is about to be set on foundations, and the other two engines are on the way. The plant is constructed with 125-foot kilns for a daily output of 3000 barrels, or an annual output of about 1,000,000 barrels of Portland cement. It is expected to begin production by August. This plant, located on deep water and convenient to eight railways, gives the company adequate shipping facilities by rail and water. R. E. Griffith is president of the Norfolk Portland Cement Corporation, main offices in the Pennsylvania Building at 15th and Chestnut streets, Philadelphia, and H. F. Bascom is resident engineer at Norfolk. This corporation is a branch of the American Cement Co. of Philadelphia.

## Alabama Consolidated.

At a recent reorganization of the board of directors of the Alabama Consolidated Coal & Iron Co. the following board was elected: J. W. Middendorf, Douglas H. Gordon, William Ingle, R. Lancaster Williams, James L. Sellman of Baltimore; Harry S. Matthews of Birmingham, Ala.; Jos. H. Hoadley of New York, H. S. Meserve of Washington and K. L. McLaren of Jersey City.

Messrs, Middendorf and Williams are members of the firm of Middendorf, Wilmore; Mr. Douglas H. Gordon is vicepresident and chairman of the executive committee of the Baltimore Trust Co.; Mr. James L. Sellman is a member of the firm of James Bonday, Jr., & Co., an importer and capitalist, and also a director in the Merchants' National Bank,

## Refrigeration.

The American Association of Refrigeration, Frank D. LaLanne of Philadelphia, president, and J. F. Nickerson of Chicago, secretary, will hold its first annual con-

of the Merchants' National Bank, Balti- this meeting the organization of the body will be perfected and questions pertaining to cold storage will be discussed. The association includes in its membership the American Warehousemen's Association, American Society of Refrigerating Englneers, American Meat Packers' Association, Western Ice Manufacturers' Association, Southwestern Ice Manufacturers' Exchange, Southern Ice Exchange, Eastern Ice Association, Illinois Ice Dealers' Association, Indiana Ice Dealers' Associa tion, Iowa Ice Dealers' Association, Middle States Ice Producers' Exchange and liams & Co.; Mr. Ingle is vice-president vention at New York May 9 and 10. At the National Ice Association of America. great celery tract.

## To Develop Mineral Properties.

Dispatches from Alexandria, La., state that F. F. Myles of New Orleans will develop mineral deposits on 8000 acres of land in St. Landry parish. It is understood that the property contains oil, rock salt, gypsum, sulphur and limestone in marketable quantities, and that Mr. Myles has already begun preliminary developments by drilling holes.

About 1000 acres of land near St. Augustine, Fla., is being developed into a

# SOUTHERN COMMERCIAL BODIES WANT INDUSTRIES

The MANUFACTURERS' RECORD will be glad to receive from responsible correspondents in every town in the South brief items of news about business conditions and the opportunities for industrial enterprises. This information is desired for publication without cost of any kind to the sender, and regardless of whether the writer of the letter is a subscriber or not. The MANUFACTURERS' RECORD accepts no paid town It seeks information of this kind from commercial and industrial organizations and from municipal authorities in every town and city of the South.

HOW ONE CITY GROWS.

Advertising Club, Oklahoma City, Okla., April 25. Editor Manufacturers' Record:

I write to express the feeling of gratitude of the members of this club for the splendid article on "Oklahoma City's Growth," which appeared in the MANU-FACTURERS' RECORD of April 21. This article, we feel sure, will prove to be a potent factor in increasing the already great interest that has been awakened in every part of the country with regard to Oklahoma City. Your correspondent has made this article of full value to this city through his absolute truthfulness and lack of exaggeration. His opening sentence in the article is both strong and apt, and the closing paragraph is a well-deserved testimonial to a Chamber of Commerce which probably approaches the unique among uch bodies. The Chamber of Commerce of this city numbers now 1200 members. each paying dues of \$2.50 per month and standing strongly united behind an able leader for everything that goes to material progress, educational advancement and other uplifting influences of the city.

WILLIAM TAYLOR,

President.

WATER-POWER AND MINERALS.

Board of Trade.

Erwin, Tenn., April 30. Editor Manufacturers' Record:

Erwin is located centrally in Unicoi county, Tennessee, Unicoi county being bounded on the east by Yancy county, North Carolina, one of the rarest timber sections in the South, and also rich in mineral deposits of various kinds, principally iron and mica. Erwin has an elevation of 1750 feet, in a very picturesque little valley in the heart of the Unaka Range of mountains, the valley bearing the same name as the mountain range. The climate is unexcelled in its salubrity, while the crystal springs bubbling from the foot of the nearby mountains furnish an unlimited supply of freestone water for both domes tic and commercial purposes. Only three miles south of Erwin is the summer res Unaka Springs, with its springs of chalybeate water.

As for water-power, this little town, nes tled so securely in the heart of the moun tains, is wonderfully blest by nature, for from the south the Nolachucky River winds its tortuous course from gap to gap until it flows in a placid stream through the center of the Unaka Valley, while the North Indian, South Indian, Matin's and Rock creeks flow into the river in the immediate vicinity of the town itself. The possibilities for power development in this valley has for many years escaped the notice of capital, but during the past 18 months a corporation has been formed for the purpose of developing this water-power, which will furnish electric current for hundreds of industries and employment for many persons. This corporation. known as the Nolachucky Developing Corporation, will commence the construction of a concrete dam on the Nolachucky River at a point known as the Devil's Looking-glass, one mile from Erwin, early in June at an approximate cost of \$300, 000. It is estimated by competent engineers that when this dam is built that it

will furnish at least 5000 horse-power in dry season.

O. P. Heath & Co., the cotton-mill peo ple of Charlotte, N. C., will build a 60,-000-spindle cotton mill in Erwin. The orders for the machinery having been placed, construction on the mill will be commenced in June or July, the Carolina, Clinchfield & Ohio Railroad donating the land upon which to erect the building. In this connection it may be said that the Carolina, Clinchfield & Ohio Railroad owns 1500 acres of land in and around Erwin, and it is quite probable that it will donate building sites to other industries desiring to locate in Erwin, in addition to offering competitive rates on transporta-

Unicoi county itself is rich in virgin forests of timber which offer induce to investors interested in woodworking plants of every description, and tanneries. There are also many rich ore deposits, principally iron, lead and mica.

The Embreville furnace, located at Em breville, Tenn., is soon to be dismantled and located at some other place, perhaps at Erwin, on account of the nearness mineral lands and of Carolina, Clinchfield & Ohio Railroad shipping facilities

Mineral rights are owned in this coun try, which we believe only require proper development to be of permanent value, un equaled anywhere in the Alleghanies Some of these properties two miles from Erwin, on Rock Creek, were worked upon small but paying basis by local capital until the panic of 1893, at which time they were forced to cease operations from lack of funds and because of their inability to build washers. Then the ore was hauled two miles by wagon and shipped via John son City. Now that the railroad facilities have improved, this work could be carried on at a minimum cost. These facts together with reports that are being circulated, lead us to believe that Erwin stands a chance to be a mining as well as a manufacturing town.

With what has already been done in Erwin during the past 18 months, and the excellent opportunities offered to other investors, it is safe to say that Erwin will become in due course of time one of the thriving and substantial towns in ee, since its growth is based East Tenne upon tangible business enterprises, and not upon the imaginative vagaries of the newspaper correspondent.

Erwin has a live Board of Trade, and any member stands ready to entertain quests or to cheerfully furnish informa-The secretary will give all corretion. spondence prompt attention, and will give only accurate information.

J. S. DUNN. Secretary.

SITES FOR INDUSTRIES.

Thomasville, N. C., April 27.

Editor Manufacturers' Record:

Thomasville has two miles of belt railcad encircling the town along an abun dant stream of water, affording magnificent sites which are offered free to manufacturing plants. These sites are especially suitable for textile plants, as they are located on the main transmission line of the Southern Power Co. Long term

undance of cheap labor, particularly for textiles, available, as the men of the families work in chair factories. Thomasville is on the main line of the Southern Railway, just 12 miles from where the new Southbound (Atlantic Coast Line and Norfolk & Western) crosses the Southern.

The climate is exceedingly healthful and favorable. The city is in the center of the Piedmont region. Fifteen woodworking plants, principally chair plants, are now here. Two new cotton mills are being com-J. L. ARMFIELD.

HOW DEL RIO WORKS.

Commercial Club,

Del Rio, Tex., April 14. Editor Manufacturers' Record: It is doubtful if a better example of the

immense development of the entire South could be cited than the accomplishments that this town, through its Commercial Club, has achieved during the past few months. Organization of the club was perfected in September, 1909, and the efforts of the officials were at once directed to getting a north and south railroad for the city. The work was handled in such manner that by January 1 this year a proposition had been made the club by the nanagement of the Kansas City, Miss & Orient Railroad to build a line from San Angelo, Tex., to the border here, and at the same time a proposition from Mexican authorities was made the club that a line from that side of the Rio Grande would be built whenever we gained the Orient. By exerting every known effort and devising new methods the people of Del Rio made good" on their contract to buy \$150,000 worth of the Orient's first m gage bonds, in addition to furnishing gratis the right of way through town and the county, and on April 1 the club anounced to the Orient management that the first payment on the bond purchase was in the local banks as per letter of the No town ever brought more contract. varied influences to bear upon a proposition than Del Rio did on this railroad matter. Every organization, of every de eription, that the town boasted contrib uted in some manner to this bond pur chase. One little girl sold a litter of thoroughbred Scotch Collie pups for \$25 and gave that amount. The colored porter in the Elks' Lodge gave \$50, and a colored bootblack contributed \$50. There was not a church, a fraternal order nor social society that failed to give a liberal amount. As a result of the extraordinary efforts put forth this city is to be the terminus the Kansas City, Missouri & Oriena Railroad, with direct connections from here to Kansas City, and via the Chicago & Alton to Chicago; a trunk line from here to the City of Mexico, and a line from here to some point on the Gulf of Mexico, not yet determined, thought to be Corpus Christi. Actual construction work is to begin at this end of the road not later than July 1, and from present indications the graders will be busy by June 1. The road from San Angelo to Del Rio will likely be completed and in operation in

Because of the success of the city in getting this new railroad, prospectors and investors are flocking into town from every direction. All lines of business have increased during the past few months, and the year will surely be a most successful one for the entire section, for good rains have fallen and put the range in excellent condition, fat stock will be plentiful at high prices, and the construction of a new railroad, commencing in the heart of tax exemption is offered by the town. the summer, will inject into local commerce

about 18 months.

an energy that cannot but override any other year in Del Rio's history.

To present some concrete evidence of the growth and prosperity of Del Rio I need but mention that the bank deposits of the city on March 29 this year, when a statement was called for by the Comptroller, showed a 40.5 per cent. gain over the same date one year ago.

Express receipts for the first quarter of 1910 over the same period of 1909 show an increase of 11.5 per cent.

The postal situation is very gratifying to those who are proud of the advancer of their home town. This office advances on July 1 from a third to a second class office, as a result of the annual report of the local postmaster for the year ending March 31, 1910. For the year thus ending the receipts show an increase over the same period one year ago of 14 per cent.; for the year ending March 31 over the same period five years ago a gain of 67 per cent. is reported. Another feature of the local postoffice is that Del Rio usually has a credit in the New York headquarters on money orders, viz., more money orders, both in number and amounts, are cashed in Del Rio than those issued from the ocal office.

Freight receipts for the town for the first quarter of this year over the first quarter of 1909 show a gain of 23 per

Freight forwarded from Del Rio for the first three months of 1910 over the same period of 1909 show an increase of over 61 per cent. Ticket sales for the first quarter of the year show a 67 per cent. gain over the first quarter of 1909.

More real estate transfers have been corded during the past 90 days than in any other similar period in the history of the city. More business property has assed hands since January 1 than in the entire preceding four years. A great deal of building is under way, and improvements and developments that one year ago were unthought of and not considered are today being made.

Those who have studied closely the situation here in regard to the growth of the city, and who have taken into consideration the splendid country surrounding the town, do not hesitate to predict a second El Paso and a city of probably the greatest importance from many standpoints along the entire Mexican border.

FRED I. MEYERS.

Secretary.

CHEAP FUEL.

25,000 in 1912 Club. Bartlesville, Okla., April 23. Editor Manufacturers' Record:

No less than six new business buildings and 50 residences are in course of construction here, and 90-odd blocks of paving are contracted for.

The Antler Hotel has just been completed, at a cost of \$50,000; the Johnstone Block, at a cost of \$100,000; two new brick blocks on 2d street just completed at a cost of \$60,000; a new hotel to be built at a cost of \$180,000; contracts have been let for a new city hall, to cost \$60,-000; the new Elks' Home, to cost \$30,000, and a new rooming hotel, to cost \$30,000, besides many residences to be added to the already heavy building list.

The Osage & Western Railroad, which is to cross the State of Oklahoma east and west, is to have its trains running through Bartlesville this year, and will have its division point and railroad shops at this point.

The city offers exceptional economic conditions for manufacturing purposes in the manner of natural gas in inexhaustible quantities at three cents per 1000 feet for fuel purposes, an open and ready market

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for the output of any industry, and excellent railroad facilities.

Anyone seeking an ideal location for a manufacturing industry of any character will find it to his advantage to correspond with the secretary of the 25,000 in 1912 Club.

GEO. T. WAKEFIELD,

Secretary.

## BUILDING AT STAMFORD.

Commercial Club, Stamford, Tex., April 25. Editor Manufacturers' Record:

The concrete foundation was laid the first of this week for the new two-story brick building to be erected by Judge Buie This building will be fitted for occupancy by the Commercial Club on the lower floor and the upper floor will be occupied by the Stamford Lodge of Knights of Pythias The building will be 271/2x100 feet. Adjoining this property on the west is an 821/2-foot front belonging to City Marshal J. R. Cargill, and Mr. Cargill is clearing this property for the reception of three structures, the lower floor providing rooms for as many business houses, and the upper portion to contain 50 sleeping-rooms Plans for these three buildings in one ar ow under way in the office of Architect S. B. Elliott.

During the week property-owners on West McHarg and also East McHarg and on North Swenson have been active, and as a result of several conferences they have signed up for paving West McHarg to the Texas Central crossing, East McHarg to the Wichita Valley crossing, and North Swenson for two or three blocks into the residence section. The new Council has passed an order for an election for bonds to pay for the city's one-third of this improvement. Material is also being placed on the ground for four brick buildings on North Swenson street. Late reports are to the effect that the property-owners on the north side of West McHarg, adjoining the Cargill property, have about gotten togethed for the building of a block of seven new brick buildings.

With all of these plans materialized there will be 14 brick buildings in course of construction at one time in Stamford, ranging in price from \$8000 to \$40,000. In addition to this, something like 40 new residences, ranging in price from \$1500 to \$5000, are in course of construction. The large brick building of the Stamford Produce Co., which is 150x54 feet, two stories high, is going up rapidly, and the lot owned by the Armour Packing Co. is being cleared, and it will only be a short time until a \$40,000 warehouse, depot and office building will be erected thereon.

Plans are also drawn for a \$30,000 building to be erected in the very near future, and other buildings are being planned.

The foundation for the \$50,000 Methodist Church has been completed, and the work on the building will begin immediately.

HOMER D. WADE,

Secretary.

## WANTS MORE INDUSTRIES.

Chamber of Commerce, Greensboro, N. C., April 30. Editor Manufacturers' Record:

On last Tuesday the taxpayers voted almost unanimously for a \$35,000 bond issue for schools, which money will be spent immediately in improving our school facilities, and with this additional money ample accommodations will be provided for our children by fall. We undertook to raise in a 10-day campaign \$65,000 for a Y. M. C. A. building, and raised over \$66,000 in seven days, thus breaking the records and fully demonstrating that our citizens are liberal and public-spirited, and possess that degree of earnestness and determination which spells success.

Our greatest need at the present is more manufacturing plants, and no matter how small or how large, we have advantages which will appeal to anyone interested. We have a very large building which would be ideal for the manufacturing of automobiles, and the manufacturer who is wise enough to look into the South will find the people of the South ready customers for a good up-to-date Southern-manufactured machine.

C. C. McLean,

Secretary.

## WILL OFFER BONUSES.

Industrial League,

El Dorado, Ark., April 22.

Editor Manufacturers' Record:

At a mass-meeting of citizens held here a few days ago the El Dorado Industrial League was organized. It has applied for a charter. This organization has undertaken to raise \$100,000 to be used in advertising El Dorado and as cash bonuses to manufacturing plants locating here. Already \$60,000 have been subscribed, and the total amount will be forthcoming in the next few days. El Dorado has many advantages to offer manufacturers, and wants the world to know it.

F. H. KETTENRING,

Secretary.

Detailed information about towns seeking manufacturing enterprises and offering specific advantages for development and business opportunities can be found under the head of "Classified Opportunities" on pages 94, 95, 96, and under "Cities, Towns and Rallironds Inviting Factories" on pages 144, 145, 146 and 147.

## WANT INFORMATION ABOUT THE SOUTH.

From letters of inquiry about the South received by the Manufacturers' Record the following extracts are made in order that business organizations, railroads and others may get in communication with these people or send them literature about different communities:

V. E. Messinger, Glendale, Ariz., writes that he seeks information about the South. G. W. Killough, 1203 Wallace street,

G. W. Killough, 1203 Wallace street, Philadelphia, Pa., wants to know about clerical opportunities in the South, especially Texas.

M. A. Tremper, Birch Run, Mich., seeks information in regard to the climate and resources of the South. Especially desires information regarding sheep and stock-raising.

B. L. Chipman, 219 Leonard Place, Knoxville, Tenn., wants information in regard to a good location, especially in Western Maryland or Western or Southwestern Virginia, for a job printing business.

J. S. Bonebrake, postmaster, Montrose, Westmoreland county, Virginia, seeks information in regard to Florida and Eastern Texas, stating that a number of people in his locality desire to buy homes in these States.

Bert L. Chipman, 219 Leonard Place, Knoxville, Tenn., writes that the following-named persons are interested in information about the South: James I. Chipman, South Poland, Maine; John S. Briggs, Poland, Maine; R. E. Chipman, 77 Prospect street, Cambridge, Mass.; John H. Jordan, Guildhill, Vt., and Mrs. E. S. Cummings, Colebrook, N. H.

Walter M. Dean, 141 Woodland avenue, Coatesville, Pa., seeks information in regard to brick-manufacturing business in the South, or any other information showing opportunity for young man with some intelligence and some capital.

Harleigh Johnston, San Ysidro Ranch, Santa Barbara, Cal., wants information about the South.

Mr. Geo. P. Rowe, 513 North Paca street, Baltimore, Md., wants information about Virginia or Texas which will help him decide which one to go to.

## **TEXTILES**

[A complete record of new textile enterprises in the South will be found in the Construction Department.]

Correspondence relating to textile matters, especially to the cotton-mill interests of the South, and Items of news about new mills or enlargements, special contracts for goods, market conditions, etc., are invited by the MANUFACTURERS' RECORD. We shall be glad to have such matters at all times, and also to have any general discussion relating to cotton matters.

## A Modern New England Textile Mill.

A few years ago the textile-mill industry of New England somewhat lagged behind in up-to-date equipment, but now that see tion is always keeping pace with modern ideas in new mill construction and equip ment. This industry is steadily expanding in New England, and new mills of large capacities are continually being erected One of the most interesting of these, from its size and modern character of equipment, is known as the Sagamore Mill No. 3, which is the third and largest of a series of mills located at Fall River, Mass., in the heart of the textile manufacturing center of New England. This structure is three stories high and 156x408 feet, with an addition 70x90 feet. In equip ment it contains the most modern and im proved machinery of the day, as well as the economic types of power and transmis sion equipment of the highest efficiency.

The Sagamore mill is illustrated and described at length in the April 15 issue of the Phenix, which is a monthly house organ published by the New York Leather Belting Co., 51 Beekman street, New York rity, for the purpose of disseminating technical knowledge about belting for transmission and conveying purposes, as well as to point out how to accomplish onomic, improved belt transmission. this article particular attention is given, both in the illustrations and descriptive matter, to the transmission equipment installed. It is pointed out that, so far as known, this is the only example of belt equipment in any mill in the United States where every belt, with a single exception of the little loom belts, has been installed in endless fashion. One particularly interesting photograph shows a view down an aisle between a line of 50 spinning frames. These are belted on what is known as a bicycle drive, and one belt 73 feet long, operates two spinning frames one on either side of the aisle. Another interesting feature of the mill is the weav ing-room, covering a single floor space of two and one-half acres, where 1250 loom are in operation. In this room no belting or line shafting is visible, this being an unique feature of its arrangement, the entire transmission arrangement being lo cated in the basement just below the room Various other features covering the equip ment of this plant are also interestingly

## The Cotton Movement.

In his report for April 29 Col. Henry G. Hester, secretary of the New Orleans Cotton Exchange, shows that the amount of cotton brought into sight during 241 days of the present season was 9,565,257 bales, a decrease under the same period last year of 2,963,638 bales. The exports, less 52,-292 bales returned from abroad, were 5,231,468 bales, a decrease of 2,183,591 bales. The takings were, by Northern spinners, 1,812,898 bales, a decrease of 569,392 bales; by Southern spinners, 1,857,341 bales, a decrease of 61,971 bales.

## The Hanes Yarn Mill.

The P. H. Hanes Knitting Co. of Winston-Salem, N. C., has engaged O. A. Robbins of Charlotte, N. C., as engineer for

the construction and equipment of its recently-announced yarn mill. This will include a one-story building about 500 feet long, with monitor roof, equipped with 10,000 spindles to produce yarns for consumption by the company's knitting machines. The company will increase its capital by \$250,000 in this connection.

## The Meritas Mills.

The Meritas Mills of Columbus, Ga., will be organized by Alvin Hunsicker, general manager of Standard Oil Cloth, 320 Broadway, New York, and associates. This company will build a mill to manufacture the cloth basis for oilcloth, shipping the output to the Standard plant for finishing. It has not fully completed plans for the mill. The incorporation of this company with \$300,000 capital stock was reported last week.

## A \$50,000 Hosiery Company.

Messrs. C. H. Bacon, manager of the Loudon Hos'ery Mills, Loudon, Tenn., and J. M. Givens of New York plan the organization of a company with capital stock of \$50,000 to build a hosiery mill at Morristown, Tenn. They ask Morristown investors to subscribe to \$20,000 of stock and donate site for plant.

## Textile Notes.

The Osage Manufacturing Co. of Bessemer City, N. C., is reported as to expend \$75,000 for additional carding machinery, looms, electrical motors, etc.

The Fulton Bag and Cotton Mills of Atlanta, Ga., will build an addition to bag department. This addition will be 60x100 feet, of brick mill construction, and cost \$100,000.

## His View of Texas.

Mr. Powell Crosley of Cincinnati has recently returned from Texas, and in an interview in *The Enquirer* vents his enthusiasm thus:

"Texas, as you know, is by far the largest State in the Union, being equal in size to four of our largest States. It has within its borders all kinds of soil and climatic conditions, from the rigors of the North, in the territory adjoining Colorado, Kansus and Oklahoma, to semi-tropical, bordering on the Gulf of Mexico. It is said that Texas is so situated and has its climate and soil in such varied assortments that it could support an immense population, though fenced in from the rest of the world.

"It is a matter of statistics that some 2,500,000 to 3,000,000 of people have moved into Texas since the census of 1900, and that the population has increased about 75 per cent. in the last 10 years, mainly from the well-to-do people of the East, North and West. They have taken with them their money, thrift and enterprise, so that that wonderful State is making great strides in development.

"I found that no part of Texas is increasing in population faster, if so fast, as the Gulf coast country, that part bordering on the coast of the Gulf of Mexico, and especially that part known as the Houston-Galveston district. This district is the rain belt, having an annual rainfall, as shown by the weather reports of the last 17 years, of over 46 inches, while Cincinnati shows but 42 inches.

"Galveston is bravely endeavoring to recover from the disastrous tidal wave of a few years ago, having bonded itself heavily to construct the immense seawall which withstood the great wave of July last. This port in exports and imports is only exceeded by one city of the United States— New York."

The Florida Citrus Exchange handled up to April 23 nearly 1,500,000 boxes of

## RAILROADS

[A complete record of all new railroad pullding in the South will be found in the Construction Department.1

## TERMINALS AT BALTIMORE.

# Several Railroads Contemplating Improvements Besides the Penn-sylvania's New Depot.

Several plans to improve railroad termi nals in Baltimore are contemplated in addi tion to the construction of a new station by the Pennsylvania Railroad, which is already under way. The Baltimore & Ohio Railroad is considering a plan to build a new downtown depot to take the place of Camden Station, that has been used for more than half a century. The company has long had in view the need for enlarging its facilities at Camden Station, where the pressure of freight busihas encroached upon the space re quired for handling passenger traffic. It is now proposed to erect a new passenger station at the corner of Howard and Camden streets, immediately east of the pres ent Camden Station. The site is alre owned by the railroad company, which has had possession of it for a number of years in fact, ever since the building of the belt line tunnel, which was completed about 13 years ago, and when it was proposed to establish a large passenger terminal at the intersection of Howard, Liberty and Lombard streets. Just how soon the construction of the new station will be undertaken is not decided, but it will doubtless come within the next year or two. In connection with this depot it is proposed to erect an overhead double-track line along the pres ent right of way to a point well outside the city limits, this being for the purpos of operating trains at high speed through the city, thus avoiding delays on the surface line, where various crossings inter fere. The erection of this elevated road in connection with some revision of line or the Washington branch would enable the Baltimore & Ohio to put on faster trains than the present 45-minute expre operated between Baltimore and Washing-

The Western Maryland Railroad Co also has in view the improvement of its terminal facilities at Baltimore, which are not at present suitable for a road of its size and character. The principal terminal is still at Hillen Station, and the com pany is obliged to use for several miles the tracks of the Pennsylvania Railroad in order to reach it. But the Western Maryland has authority to build a line along Jones' Falls, a stream which bisects the city from north to south, and the company may build its own entrance by cutting across from its present line north of Walbrook Station, in the western part of the city, to the Jones' Falls valley, and follow ing that stream to Hillen Station. It may also build the line long contemplated from Hillen Station on an elevated structure over the stream to the harbor, which would necessitate an extension of about one mile. The Western Maryland is furthermore considering the erection of an office build ing to accommodate its forces of officials and clerks. It has long outgrown the limited accommodations at Hillen Station, and is obliged to rent quarters downtown with the inconvenience that necessarily follows the separation of different departments. It appears probable that the com pany will be doing some new construction within the next year or two in order to relieve the situation.

The Washington, Baltimore & Annap olis Electric Railway, which has a double track line from Baltimore to Washington and a branch to Annapolis, is building a freight terminal on Lombard street near Howard street.

has also taken steps to improve its facilities, particularly with reference to handling freight, having obtained the right from the Legislature recently to build an extension from a point outside the city limits to a point on the eastern side of the

## New Equipment, Rails, Etc.

The Chicago, Rock Island & Pacific Railway is concluding arrangements for the purchase of a large amount of equipment as follows: Eighty-four consolidation locomotives and 50 Pacific locomotives from the American Locomotive Co., New York: 600 convertible ballast cars from the Rodger Ballast Car Co., Chicago: 825 steel-frame 40-foot box cars from the Western Steel Car & Foundry Co., Chicago 800 steel-frame 40-foot box cars and 5 dining cars 70 feet 6 inches long from the Pullman Company, Chicago; 25 caboos ears 29 feet long from the Mt. Vernon Car Manufacturing Co., Mt. Vernon, Ill.; 50 refrigerator cars 40 feet long from the Milwaukee Car Manufacturing Co., Milaukee, Wis.; 4 gasoline steel motor cars 70 feet long from the McKeen Motor Car Co., Omaha, Neb.: 1000 steel-frame 40foot automobile and furniture cars, 500 steel-frame stock cars 36 feet 61/2 inches long, 200 refrigerator cars 40 feet long, 10 steel baggage cars 66 feet long, 20 steel noking cars 60 feet long, 20 steel com partment coaches 60 feet long, 6 steel pas senger and baggage cars 70 feet long, 6 steel baggage and mail cars 70 feet long and 4 steel postal cars 60 feet long from the American Car & Foundry Co., St.

According to a market report, the Harriman lines are not expected to place or ders for some time for about 300 locomo tives and 5000 or 6000 freight cars be ause the equipment could not be received early enough to be available in the crop season. The company has ordered 424 passenger train cars from the Pullman

The Norfolk & Western Railway has or dered 10 locomotives from the Baldwin Works, Philadelphia.

The St. Louis, Brownsville & Mexico Railway is reported to have ordered 2000 tons of 80-pound rails from the Pennsylvania Steel Co., Steelton, Pa.

The Wrightsville, Adrian & Lyons Rail ray Co. is in the market for two lo tives, two combination passenger and baggage cars and two passenger coaches. F. Staten is secretary at Adrian, Ga.

The locomotive order of the Santa Fe system, placed with the Baldwin Works, ncludes 23 Atlantic, 12 Pacific and 10 Mallet locomotives.

The Board of Control at Baton Roug La., is inviting bids to furnish 21/2 or 3 miles of either relaying or new steel rails of 35 or 40 pounds weight. W. W. Heard is president.

The Kansas, Lawton & Gulf Railway will, it is reported, purchase 5 passenger cars, 10 flat cars and 10 box cars. It was recently stated that the Armour Construc tion Co., Kansas City, Mo., Frank Avery president, would furnish equipment and material for this line. J. M. Bellamy of Lawton, Okla., is president of the railroad.

The Macon Railway & Light Co. of Maon, Ga., will, according to a press report. purchase eight pay-as-you-enter cars, and ft will also remodel 33 cars into the pay-as ou-enter type.

The Baltimore & Ohio Railroad, it is re ported, will purchase 120 passenger cars besides other equipment.

The Pennsylvania Railroad has ordered 171 passenger cars, which will be built in

Steel Car Co. of Pittsburg and the Pullman Company of Chicago. The Pennsylvania Company (lines west of Pittsburg) has increased its order for steel pass cars to 89, all of which will be built by the Standard Steel Car Co.

The Louisville, Henderson & St. Louis Railway, according to a dispatch, has or ered two 10-wheel locomotives from the Baldwin Works.

The Clarksvile Railway & Light Co. of Clarksville, Tenn., has received three payas-von-enter summer cars from the American Car Co. of Danville, Ill.

The Valdosta, Moultrie & Western Railay has ordered a 10-wheel loc from the Baldwin Works.

The Newton Northwestern Railway of Newton, Miss., will be in the market for locomotives, cars, rails and other material. D. L. Ragland is president and chief engineer at Newton, Miss.

The Virginian Railway is reported to have ordered 1500 steel gondola cars and 500 steel hopper cars from the Pressed Steel Car Co. of Pittsburg.

The Seaboard Air Line has, it is re ported, ordered 1000 box cars and 25 steel underframe stock cars from the Pressed Steel Car Co.

#### AFTER KENTUCKY COAL.

New Line Projected to Include Ex-tension of an Existing Railroad.

A letter to the MANUFACTURERS' REC-RD from Salyersville, Ky., says:

"The extension of the Eastern Kentucky Railroad from Webbville, Ky., to the great timber and coal fields in Breathitt county assured. The officers of the company who contemplate taking over the Eastern Kentucky road and making this extension of 69 miles, together with their chief engieer, are now going over the survey mak ing some minor changes preparatory to advertising for contracts to grade the road. The road passes through Lawrence, Johnson and Magoffin counties, and will tap one of the richest undeveloped coal and timber fields in the United States. Work will begin on the extension in the early

A press report says that the North & South Railroad Co., which is contemplating the construction of a line from Ports uth, O., via Riverton & Grayson, Ky. to Webbville proposes to use the Eastern Kentucky Railroad for part of the distance, and will build an extension to Salyersville and Jackson, Ky. It is further reported that C. D. Warren and Capt. F W. Fletcher of Toronto, Canada, have gone over the route of the proposed exten sion in company with Mr. Gibson, an engineer, from Jackson, Ky. The Eastern Kentucky line extends from Riverton, Ky., on the Ohio River, to Webbville, about 36 miles. Its extension as proposed would afford transportation facilities to a region now without railroads.

## Chesapeake & Ohio Plans Approved.

The stockholders of the Chesapeake & Ohio Railway have approved the financial plans of the directors for the acquisition of the Hocking Valley Railway, of a large interest in the Kanawha & Michigan Railway, and for the purchase of the Chicago, Cincinnati & Louisville Railroad, as heretofore proposed. The plan provides for an increase of the common stock from \$66.-000,000 to \$100,000,000 and for the issue of \$37,200,000 of 41/2 per cent. convertible The arrangements with respect to the Hocking Valley Railway and the Kanawha & Michigan Railway have been concluded, but the purchase of the Chicago Cincinnati & Louisville Railroad is to be fulfilled after the proposed foreclosure about equal numbers by the American Car sale. Some of the new securities will be and of Habersham county.

The Maryland & Pennsylvania Railroad & Foundry Co. of St. Louis, the Standard used to acquire new equipment for the Chesapeake & Ohio.

## Frisco's Yards at Harvard, Ark.

The St. Louis & San Francisco Railroad has completed its new freight vards at West Marion, Ark., and a report from Memphis says that they will be immediately put into use. The name of West Marion will be abandoned and the place will be known as Harvard. It is further stated that the company has built mor than 100 houses for its employes, and will also erect a small hotel to accommodate others. An electric-light plant will be installed to illuminate the yards and buildings of the company, but it will also furnish light to the homes of employes. The other improvements include a roundh of 50 stalls and a machine shop to which additions may be made from time to time.

## Coal & Coke's Northern Extension.

Ashton A. Chapman is making a survey for a contemplated extension of the Coal & Coke Railway from Elkins, W. Va., northward for a distance of about 90 miles. A report that he was awarded a contract to build the line is denied by him. Press reports indicate that the extension will go from Elkins to Rowlesburg, connecting there with the Morgantown & Kingwood Railroad; also that a branch will be constructed from St. George to connect with the Dry Fork Railroad for Parsons. W. Va. It has been rumored that this extension, if constructed, would connect with a line to Pittsburg.

## Norfolk & Southern Reorganizing.

The Norfolk-Southern Railway Co. as been chartered with \$16,000,000 capital to operate the properties of the present Norfolk & Southern Railway Co. as soon as the necessary formalities to take the road out of the receivership are completed. The officers are: President, E. T. Lamb, Norfolk, Va.; vice-president, Frederick Hoff of New York; secretary, Morris S. Hawkins of Norfolk; assistant secretary. N. W. Runnion of New York; treasurer, Mathias Manly of Norfolk.

## \$3,000,000 Bonds Sold Abroad.

William Kenefick, president of the Misuri, Oklahoma & Gulf Railroad, which is building from Muskogee, Okla., to Denison, Tex., is reported to have announced at Kansas City that \$3,000,000 of bonds of the line have been sold in Paris, France.

## Railroad Notes.

The Southern Railway has completed its w boiler shop at Coster, near Knoxville, Tenn.

A dispatch from Atlanta, Tex., says that the Texas. Arkansas & Louisiana Railway proposes to use natural gas for fuel on a locomotive, and it has obtained a car carrying a tank in which the gas will be stored and from which the fuel will be fed to the engine.

Mr. T. H. McDannel has been appointed general immigration agent of the Ocean Steamship Co. of Savannah, with office at Ellis Island, Immigrant Station, New York, and at Pier 35, North River, New York.

A dispatch from Carthage, Mo., says that the construction of an interurban railway from there to Springfield, Mo., is assured, nearly all the stock having been subscribed and an order has been placed for 45 miles of 80-pound steel rails. Gasomotor cars of a high-speed pattern will be operated.

The Board of Trade of Clarksville, Ga., is circulating an attractive pamphlet telling of the advantages of that community

## GOOD ROADS

## WEEK'S HIGHWAY RECORD.

## Progress in Southern Road and Street Improvement.

[Full details of highway undertakings ar given in the Construction Department.]

## Bonds Voted.

Betterton, Md.-City voted bonds to construct concrete sidewalks.

Washington, Va.-Wakefield district of Rappahannock county voted bonds for \$15,000 to construct seven-mile macadam ized road.

#### Bonds to Be Voted.

Lexington, Ky .- City contemplates vot ing on issuing \$300,000 of bonds for street improvements

May Pearl, Tex.-Ellis County Commissioners contemplate ordering election on \$25,000 of bonds for road improvements.

San Marcos, Tex.—Hays county vote June 4 on issuing \$20,000 of bonds for road construction.

Stamford, Tex.-City contemplates bond election for road and street improvements.

Waxahachie, Tex.-Ellis county votes June 4 on issuing \$300,000 of bonds for road improvements.

#### Contracts Awarded.

Attalla, Ala.-City awarded contract at about \$8900 for constructing 5100 square vards of artificial stone sidewalk, 100 yards of driveway and 7800 feet of combine curb and gutter.

Clarksville, Tenn .-- W. J. Manning & Son have contract to lay 20,000 square feet of sidewalk.

Richmond, Va.-City awarded contract for asphalt block paving on four streets surrounding school.

### Contracts to Be Awarded.

Agricultural College, Miss .- Executive mmittee A. and M. College opens bids May 17 for constructing 11/2 miles macadam road.

Dallas, Tex.-City opens bids May 9 for paving Elm street.

Dallas, Tex.-City opens bids May 9 for paving Commerce street.

El Paso, Tex .- City opens bids May 5

Federalsburg, Md.-Caroline County Commissioners open bids May 10 for paving and macadamizing .61 mile road.

Houston, Tex .- Harris County Commissioners open bids May 13 for paving four miles of road and for paving on another road.

Laurinburg, N. C .- City opens bids May 23 for laying about 2500 square yards of concrete sidewalk paving, with curbs and gutters.

Little Rock, Ark.-City opens bids May 4 for grading and laying concrete sidewalks and crossings.

Little Rock, Ark.-City opens bids May 14 for asphalt paving.

Luray, Va.-New Market and Sperryville Turnpike Co. contemplates improv ing road and constructing one mile of mac adam road as object-lessons.

Lynchburg, Va.-State Highway Com missioner opens bids May 10 for constructing 1.6 miles of macadam road.

Macon, Ga.-City decided on paving various streets with wooden blocks, asphalt, bitulithic with vitrified brick in center of street-car tracks, granite block, vitrified block, vitrified brick, etc.

Memphis, Tenn.—City opened bids April 26 for 111,731 square yards of tarmacadam pavement, 980 square yards of gravel pavement and 271,610 square yards of concrete gutters.

Memphis, Tenn.-City will pave Rabourn Boulevard with bitulithic.

Oklahoma City, Okla.-City opens bids May 16 for eight miles of street paving.

Port Arthur, Tex.-City contemplates construction of concrete sidewalks.

Portsmouth, Va.-City will expend \$125,000 this year for street improvements.

Spartanburg, S. C .- Spartanburg coun ty will construct 36-mile road.

Spottsylvania, Va.-Board of Public Roads opens bids May 18 for constructing 14 miles of gravel road in Chancellor dis trict, 19 miles in Courtland district and three-quarters mile of macadam road in latter district.

Wichita Falls, Tex.-City expects to award \$40,000 contract in connection with street improvements.

## LUMBER

[A complete record of new mills and buildoperations in the South will be found in the Construction Department.]

## Will Develop 1000 Acres.

Regarding its recent purchase of 1000 cres of timber land in Charlotte and Campbell counties, Virginia, the Ward Lumber Co. of Lynchburg advises the MANUFACTURERS' RECORD that the tract is estimated to cut about 2,000,000 feet of original growth oak and poplar and 2,000, 000 feet of yellow pine timber. The com pany is preparing to develop the property and has installed two circular mills of 20, 000 feet daily capacity for this purp The land is located on the Virginian and Norfolk & Western railroads, and involved an expenditure of \$20,000 for its ourchase. M. L. Booth of Brookneal, Va. is the manager in charge of operations.

## For Railroad Ties.

In connection with its recent purchase of timber land in Tennessee the Aver & Lord Tie Co., Railway Exchange Building, Chicago, informs the MANUFACTUR-ERS' RECORD that it does not intend to develop the property other than for railroad crossties. It is not probable that the company will install any mills, except that it may contract with a few portable mills for sawing ties. This is one of numerous tracts which the company owns for similar development.

## Sawmill for Newton, Miss.

A dispatch from Newton, Miss., states that the Newton Lumber & Manufacturing Co. has ordered equipment and is making active preparations for the erection of a band-saw mill of 35,000 feet daily capacitation ity. The company is at present operating a planing mill and woodworking plant, and has under construction a large drykiln. Its proposed sawmill will be put in operation as soon as possible.

## To Develop 8000 Acres.

A report from Prescott, Ark., states that the Prescott Land & Timber Co., recently organized with a capita! stock of \$50,000, has purchased 8000 acres of timber land in Clark county, and will establish a large sawmill to facilitate its development. Offi cers of the company are Nat Martin, president; M. L. Moore, vice-president; John A. Davis, secretary and treasurer, and B. B. Young, manager.

## Lumber Notes.

The Gillespie Lumber Co. of Jackson ville, Fla., will incorporate with a capital stock of \$50,000 to deal in lumber other wood products. Its officers are D. L. Gillespie, president; Pittsburg, Pa.; E. I. Burdett, secretary, and E. L. Wolff, treasurer

The Fleming Brothers Lumber & Manu facturing Co. of Garland, N. C., has in corporated with a capital stock of \$100,-000. Its incorporators are George W Fleming, Garland; Clarence D. Fleming, Pocomoke City, Md.; Berton S. Reese Allentown, Pa., and William M. Fleming,

## MINING

## The Asher Coal Mining Co.

The MANUFACTURERS' RECORD has re eived authentic information regarding the plans of the Asher Coal Mining Co. of Wasioto, Ky., which has incorporated with a capital stock of \$350,000. The company has leased three tracts of coal lands from T. J. Asher of Wasioto, and is making act ive preparations for the installation of equipment to facilitate development. One tract is located on Crane Creek and contains about 5000 acres, while another of 2000 acres is located on the Cumberland River, and one of 7000 acres on Toms Creek. It is intended to install equipment at mine No. 2, involving an expenditure of about \$150,000, and begin shipping from this mine within 30 days. Work on a mine at Toms Creek has also begun. The equipment already purchased consists of one 500-kilowatt alternating-current generator, steam turbine, boilers, incline shaker screens, etc. The power-house will be located at No. 2 mine, and is intended to carry current to the other two. Its gen erating capacity will be about 10,000 volts. It is stated that the coal to be worked is known as the Hance vein, 60 inches thick, with sand rock top and bottom, and is clean and non-coking. Among the incor porators of the Asher Coal Mining Co. are T. J. Asher, H. H. Asher, Robert Asher G. M. Asher, A. J. Asher, Jr., and M. Brandenburg, all of Wasioto, and William Low of Pineville, Ky.

## With \$1,000,000 Capital Stock.

Incorporating with a capital stock of \$1,000,000, it is understood that the Hutchinson Coal Co., general offices Fair mont, W. Va., has effected a consolidation of extensive coal interests in West Virginia and Ohio. These properties are said to include those of the Hutchinson Fuel & Supply Co. at Mt. Clare, W. Va., consist ing of 1000 acres of coal lands and a large mining plant; Meadowbrook Coal & Coke Co., Erie, W. Va., mining plant and 500 acres of coal land: Moore's Run Coal Co. plant and 300 acres of coal land near Wheeling, and the Mason City Coal Min ing Co., 300 acres of coal land in Mason county and mining plant near Wolf City. Among the incorporators of the Hutchiuon Coal Co. are M. L. Hutchinson, C. E. Hutchinson and C. H. Jenkins, all of Fairmont, and V. L. Highland and C. S. Denham of Clarksburg.

## A Kentucky Development.

An important coal and timber develop ment in Kentucky will be undertaken by the Greasy Fork Coal & Timber Co. of Louisville, which has incorporated with a capital stock of \$250,000. Details have not been announced as to its plans, but it is stated that the company will purchase and develop extensive coal and timber lands in Harlan, Letcher and Leslie counties, beginning operations at once, incorporators are John G. White of Win chester; R. Carnahan, A. V. Thomp Thomas R. Gordon and A. S. Rice, all of Louisville.

## West Virginia's Coal Production.

Statistics prepared by the State Depart ent of Mines of West Virginia for each of the 12 mining districts of the State show a total coal production for 1909 amounting to 44,383,735 tons and shipments amounting to 39,816,597 tons. The coke production for the year amounted to 3,439,098 tons.

## Mining Notes.

W. I. Thomason tract of coul and fruit lands near Wilburton, comprising about 3480 acres

The Southern Appalachian Coal Operators' Association held a meeting at Knoxville last week for the purpose of discussing subjects of interest to its members The next meeting, it is anonunced, will be held at Knoxville on May 23.

## FOREIGN NEEDS

Machinery and equipment wanted abroad are mentioned in many letters received by the MANUFACTURERS' RECORD. which is so widely read in foreign countries that we are in constant receipt of many letters from all parts of the world. For the benefit of our subscribers seeking foreign trade we publish the following extracts from recent letters:

#### Wants Drums for Oil.

Eug. Reynaud & Co., Newchang, Manchuria, China, writes the MANUFACTUR-ERS' RECORD:

"We are exporters for bean oil. The present packing used is second-hand Amercan kerosene oil tins with wood case, containing two tins. The cost price of this packing is very dear, because it requires 35 cases and 70 tins for one ton of oil. Also we have much trouble in soldering the tins, and we have less in weight on arrival in Europe. We hope you will investigate for the best and most economical method for packing the oil for shipment We think iron drums from America would be the best to use if sent here in iron sheets not made up in drums; the freight for cubic tons would be too expensive The drums could be put together here. To make it here we would require the following material: 1. Large iron sheets with gap for bunghole and lock screw. Round iron sheets for the end. 3. Iron bands or hoops to hoop. 4. Some rivets. 5. Machinery. Can you give us the name of a good drum manufacturer, located, if possible, near New York, to facilitate the shipment to China and in position to supply us the different parts to enable us to put them together easily?"

## For American Manufacturers.

Nicolas Georgiades, Constantinople, Turkey, writes the Manufacturers' Constantinople, REGORD:

"I should appreciate it if you would give the addreses of some leading firms in woolen imitations of Astrakan, metal cables, wire files, hardware of all kinds, iron and metals in general; also a few makers of firearms, revolvers, etc. I would thank you very much for a detail list of leading manufacturing exporters of alimentary fats and, if possible, some new addresses for cottonseed oils and black and colored box-calf specially for men's slippers. You would place me under particular obligations if you could get me into communication with buyers of Turkish leaf tobacco or by furnishing me with a list of the principal buyers. Our tobacco is exported in very great quantities, and I am most favorably situated to deliver the various brands, Canalla, Xanthie, Drama, etc. I can send your wholesale buyers, upon request, samples, prices and full information

## Wanted for South America.

W. O. Smith & Co., F23 Produce Exchange, New York city, write the MANU-FACTURERS' RECORD

"A large firm in South America asks us to send catalogues and prices of machines for making floor tiles, heaters to burn kerosene oil, portable houses of canvass to be used as army hospitals, samples and prices Organization of the Choctaw Coal Co. of of metal and shoe polishes, cleaning stuffs, Wilburton, Okla., has been effected with a toilet articles and drugs, wire to reinforce capital stock of \$350,000 to develop the

## MECHANICAL

## Wiley & Russell Machinery.

Purchasers of machinery for factories mills and shops will find their attention attracted to the two accompanying illustrations of "Green River" opening die-bolt cutter, nut tapper, pipe threader and cutting-off machines Nos. 50 and 55. Thesa machines are manufactured by the Wiley & Russell Manufacturing Co. of Greenfield, Mass. This company says:

"The Green River machine has the very great advantage of opening dies which do not need to be adjusted, but stand always

to the proper places, thereby making it possible to thread a lot of bolts of different sizes almost as quickly as if all were of the same size. Each die cuts a full thread at one operation, and the hollow spindle allows a screw of any desired length to be eut.

"The chuck is a very complete one, the jaws being made of tool steel, hardened and tempered, having interlocking jaws, to enable iron, large or small, to be properly grapsed, thereby keeping the jaws sharp and in good order.

"The capacity of this machine is for ready for work, and instantly release the bolts, nuts or pipe one-quarter to two

brought into position by turning the disks This company manufactures the "Ameridown; that they are used with interchange can" steel split pulley, made with either straight or crowning faces, and patented in the United States and foreign countries. (See accompanying illustration.) Describing its pulley, the company says

"Attention is called to the mechanical nstruction of the 'American' pulley which admits of a light rim of one ply made exceedingly stiff by interior flange to which the arms are attached, and by heavy rolled beads at the edges of the face The arms, which are of patented construction, are flat, with their narrow edges cutting the atmosphere, and they converge from near the extremities of the hub to the central flange of the rim, so as to make an 'A' frame of great strength. On the larger sizes of 'American' pulleys the arms are strengthened at the bend near the hub shell by being thickened at that point. These flat arms are corrugated to give them stiffness. It will be seen by studying the construction of the pulley that it would be difficult to arrive at another design as well calculated to give the maximum strength with the least weight of material.

"'American' pulleys are guaranteed for double-belt service. They are competent for any duty not so severe as to demand a special pulley. Any pulley failing within one year in ordinary service is replaced. A record kept for a number of years shows that only two pulleys in 1000 have been omplained of for any cause.

"The weights of different sizes of 'American' pulleys, compared with the weights of cast-iron pulleys or ordinary wroughtiron pulleys, show that the 'American' steel pulleys weigh a little more than half as much, size for size. This is, of course, an



"AMERICAN STEEL SPLIT PULLEY

and one-half inches; takes three-and-one half-inch belt; has oil reservoir."

has a hand wheel in place of the lever illustrated.

The No. 55 machine may be described as is No. 50, with the following changes:

jaws being made of tool steel, hardened and tempered, and are interlocking to en able iron, large or small, to be properly grasped.

advantage for freighting, and the lightness of the pulleys means a saving in the power required to drive the shafting that carries

"'American' pulleys are safe at high speed, and they cannot burst destructively.

"The makers of the best cast-iron pulleys do not advise for their products a higher peripheral speed than 88 feet per second. From tests made by us it would appear as below that 'American' steel pulleys can be recommended for a peripheral speed of 130 feet a second.

"A 36x10-inch 'American' pulley was run 192 feet per second, with a slight bending only in the rim clamp bolts; a 34x12inch was run at 141 feet per second with no sign of distress. A 20x10-inch was run 137 feet per second without any indication of injury.

"A 36x12-inch pulley has been tested to 900 revolutions per minute without appreciably deforming the pulley.

"Tests made to determine the ability of the 'American' all-wrought-steel pulleys to transmit horse-power have shown that they will transmit any load recommended for cast-iron pulleys (not special) of the best make. As, for instance, a 30x8x 3 7-16-inch bore 'American' pulley trans mitted 44.6 horse-power at a speed of 1.222 feet per minute. Double eight-inch belts of the best quality are recommended for the transmission of 20 horse-power only at this speed.

"The fact that 'American' pulleys ar parting pulleys makes them readily appli-

able bushings enables them to be applied to shafts of different diameters.

"It is not necessary to use keyseats or crews to hold these pulleys to the shaft. The hub clamps are of steel, and of such construction that they grip the shaft losely with enough power to prevent the pulley from slipping when the maximum traction is put upon the belt. Tests have hown that a 30x8-inch 'American' nulley will stand a pull upon the belt of 215 ounds per inch of width. This is about twice the traction ordinarily used.

"Our pulleys have been on the market for over eight years, and probably 30,000 of them were in use in 1898, and each year has seen an increased quantity put into service until the shipments from our factory are now ten times what they were eight years ago. We must have a million pulleys in use, and we have yet to hear of pulleys that are worn out except in the following cases:

"First-Where pulleys have been used in dyehouses or similar places where they were subjected to acid fumes.

"Second-Where they have been ground through by grit from pulverizing machinery or conveyors carrying pulverized stone.

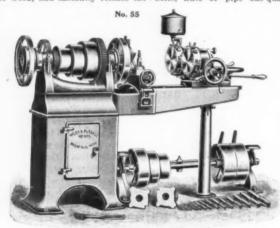
"Third-In some instances where pulleys have been subjected to heavy duty the arms have broken near the hub, or the rivets joining the arms to the flanges of the rim have given way. By keeping careful notes concerning the sizes of broken pulleys and where they gave way, we have been able to select certain sizes which we considered it good policy to reinforce. Of course, the larger the pulley and the wider the face the more need for reinforcement. In late years there has been a marked diminution in the number of pulleys complained of for any cause-in 1906-1.13 in every 1000 pulleys.

"'American' pulleys are inspected before they leave the factory by men especially trained for this work, and who have become expert at it. Every pulley not oming within the necessary limit of truth is rejected. The 'American' pulley is as true as a pulley can be that is made in dies and not turned up on a lathe. The fact that all the parts are made in dies, and are interchangeable and symmetrically placed, ensures balance.

"Our maximum diameter was 48 inches, but we have supplemented same with a new range of diameters from 50 to 60 inches, inclusive, and have added some smaller diameters in the sizes under 48 inches. These new pulleys in the larger sizes are strengthened by having eight arms instead of the usual six, and embody all the leading mechanical features which have made our specialty so well liked in all directions. Our pulley is the only one which has the groove in the face center allowing for espace of air from underneath the belt, thus increasing the tractive power of the latter by a large percentage."

## Storage Batteries at Gary Steel Plant.

In construction of the Gary works of the Indiana Steel Co. (subsidiary cororation of the United States Steel Corporation) it is acknowledged that this plant represents the most modern ideas in steel works construction. The rail mill has a daily capacity of 4000 tons of finished rails, and it is said to be the only electrically-driven mill in the world. On account of the fluctuating load of the mill, which varies from 4400 to 19,100 horse-power, with an average of 12,025 horse-power, it is interesting to note how these fluctuaions on the generating station are minimized. For this purpose a storage battery equipment was installed, and it has been found since the plant has been in opera-



WILEY & RUSSELL MACHINERY.

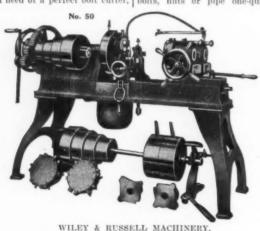
the time, and also saving much wear on the dies. wheel the dies separate, and the work can be taken out.

"We know of no machine which can approach it for quickness and convenience in threading bolts or pipe of a variety of sizes. You can change from one size die to another in less than one minute's time It is very simple and strong, so that workmen of ordinary skill can use it with good results, and without the danger of breaking. We cannot recommend it too highly to anyone in need of a perfect bolt cutter.

bolt when threaded, without running back inches. It has four changes of speed; has over the screw, thereby saving nearly half | hollow spindles; hole through spindles two By simply turning the hand It may be added that the carriage n

"The chuck is a very complete one, the

"The capacity of this machine is for bolts, nuts or pipe one-quarter to two



nut tapper, pipe threader and cutting-off, inches. It is powerfully back-geared; has machine

"The dies (as many as 10 different sizes in assortment No. 1) are secured in two equal disks set side by side, and brought together or separated by a right and left screw, each die being divided, the half in one disk opposite to the half in the other, in such a manner that complete working die is made by bringing the wheels together to the stops, and the finished screw released by separating them, thus saving running back over the threads. Each die has independent stop pins controlling its cut, which are readily shortened or lengthened, enabling a perfect adjustment to be maintained, all the different dies standing ready

six changes of speed, which are obtained by throwing gears in and out, as in an engine lathe, thus making it possible to get suitable speed or power, as the nature of the work may require. It has hollow spindle; hole through spindle two and onehalf inches; takes three-and-one-half-inch belt.

"Oil tank and cock for oiling work sunplied without extra charge when oil pump is not ordered."

## "American" Steel Split Pulley.

Wherever pulleys are needed, purchasers of this class of supplies will find it advisable to investigate the offerings of for use, so that any size may at once be the American Pulley Co. of Philadelphia. cable to a shaft, without taking the shaft tion that many advantages have been deul

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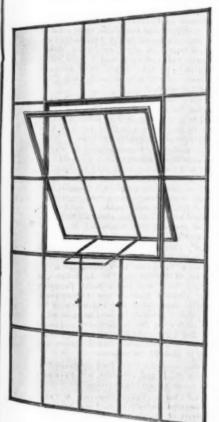
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rived from the battery which were not expected. The battery proper consists of two series of "chloride accumulator" cells, each series containing 125 cells, and the capacity of each is 4320 amperes at the one-hour rate, or 8640 amperes at the usual regulating rate. The practical commercial results obtained from the storage battery in actual operation have demonstrated that the regulation of both the alternating current and direct current loads makes the parallel operation of large gas engine driven alternators under fluc tuating load conditions entirely practi An interesting feature is the cable. marked effect of the battery regulation on the gas engine driven alternators in the South Chicago plant of the Illinois Steel Co., about 11 miles from Gary. When for any reason the battery at Gary is discontinued or the tie line between the power stations is opened, a decided difference is noticed in the operation of the South Chicago engines. Another feature that has been noted is the increased speed at which the large rail mill can be operated. If for any reason the battery is disconnected, the output of the rail mill is materially reduced. The emergency feature of the battery is also a most valuable one, as it enables the most important portion of the load to be carried uninterruptedly through times of interruption of service, which of necessity will occur in plants of large magnitude. As it is of vital necessity that the service in steel mills shall be continuous, the value of the battery in overcoming delays can hardly be estimated. This storage battery equipment was installed by the Electric Storage Battery Co. of Philadelphia.

## The "United" Steel Sash.

Architects, building contractors and others interested in improved building materials will find their attention attracted by the five accompanying views of the "United" steel sash. This sash is made of the highest grade rolled steel sections, espe-



THE UNITED STEEL SASH

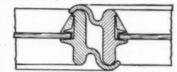
cially designed to give the greatest strength and maximum light area

The frame is so built that the full s tion of the steel is developed at all points. There is no weakening of frame by cutting plaster, and which can also be used in the

any kind.

The sash has an attractive and finished appearance.

The special ventilator frame has two continuous contact surfaces for keeping out drafts and rain. A special improved locking device insures absolute tightness all around openings.



The glass is held firmly in place by special spring-steel clips, doing away with the old troublesome method of fastening with iron pins.

A continuous ledge extending along the entire length of the steel section prevents the putty from working loose or cracking away.

The sash is so designed that all joints and openings are thoroughly weatherproofed against drafts and rain. It has



CHANNEL FRAME AROUND OUTSIDE.

rigidity, maximum lighting area and eatherproofness.

Standard frames are made for either 10x16-inch or 12x18-inch glass, in units up to five lights in width and any desired number of lights in height. Where openings are of greater width, several units are ombined together by steel mullions. In this way practically every sized opening can be accommodated.

The Trussed Concrete Steel Co. of De troit, Mich., manufactures the "United"



VERTICAL RIBS OF SASH.

steel sash, and summarizes its advantage as follows

"1. Rigidity .- Made from deep sections of highest grade rolled steel. No weakening of frame by cutting out or punching of sections at joints or elsewhere.

"2. Lighting,-Maximum area of lighting is secured by using a deep and narrow steel section, offering minimum obstruc tion to light.

"3. Weatherproofness .- The perfect fit ting joints, double-contact surfaces around



entilator and special locking device effect ively shut out draft and rain.

"4. Workmanship. - Being machine built, absolute accuracy and uniform finish is assured. Especially attractive in finished appearance

"5. Economy.-The 'United' steel sash ost but little, if any, more than wooden frame. Fireproof and permanent. Caunot burn or rot."

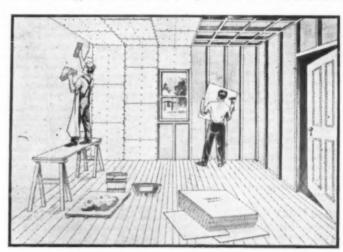
## The "Hercules" Plaster Board.

A fire-resisting substitute for lath and

out the metal at the joints or by holes of place of lumber as a sheathing under weatherboards, is being introduced by the Plaster Products Co., Hampton, Va. It s known as the "Hercules" plaster board. and may be used for a variety of purposes For high-class work the company states that the most satisfactory result is obtained by first applying one-quarter to three-eighths inch brown coat of any good brand of hard wall or wood-fibered plaster over the "Hercules" plaster board, and after

M. Freeman, who are, respectively, manager and secretary-treasurer of the Silver Creek Machine Shops. Describing the press, Mr. Freeman says:

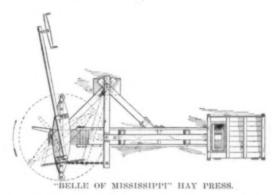
"The machine complete weighs about 600 pounds. It is made of the very best grade of virgin pine, braced and supported wherever necessary with steel straps and rods. The draft animal is hitched to the singletree and directed to move in a circle



PLACING "HERCULES" PLASTER BOARDS.

this is thoroughly set top off with a thin | indicated by the arrow. As the beam is coat of finishing plaster. For summer cottages, bungalows or temporary constructions the company claims "Hercules" can be used without plaster by simply pasting wallpaper directly over the board. When used in this way it is suggested that the eams or joints be pointed up with plaster, in order to make a smooth surface. For repair work the plaster board can be nailed directly on the old lath and finished with a thin white coat after the cracked and broken plaster has been removed. For fireproofing purposes the plaster hoard is nailed solid to wooden or exposed surfaces. The claim is made that the use of this plaster hoard results in a great saving of time, labor and plaster, and that it renders ses cooler in summer and warmer in winter, as it is claimed to be impervious to heat or cold. At the same time it is said to be a non-conductor of sound, will not shrink or buckle, is light in weight and flexible. The boards are 32x36 inches in size, and are therefore specially adapted for nailing directly to studding placed 16 inches on centers. The company suggests

rotated the rollers on the end first bear on the adjacent side of the oscillating lever. After the roller is moved from the engagement with the lever the roller depending from the lower face of the rotatable beam will engage with the short side of the steel arm, which will be noticed projecting, and as the beam rotates this side of the arm will be moved rearwardly, while its opposite side will be moved forwardly, whereby the plunger, through the chain, lever and plunger rod, will be drawn outwardly from the casing or cylinder. As the heam continues to rotate the roller will move into engagement with the lever, whereby the latter will be forced toward the cylinder or casing, moving with it the plunger rod and arm, so that the hay within the casing or cylinder will be compressed and at the same time the arm positioned to be engaged by the roller at the opposite end of the beam. With this construction it is evident



that one-and-one-quarter-inch wire nails that at each half-revolution of the beam with large heads be used, spacing the nails four to six inches apart.

See accompanying illustration.

## "Belle of Mississippi" Hay Press.

People interested in hay presses are invited to note the accompanying illustration of the "Belle of Mississippi" press, the machine being the invention of F. W. Ehman of Silver Creek, Miss., and now owned and manufactured by Mr. Ehman and Thomas

the plunger will be reciprocated, and it is evident that the operation of pressing hay will be greatly facilitated and the time ordinarily required to form a bale reduced to a minimum. The device is exceedingly simple in construction and comparatively inexpensive of manufacture, embodying few parts, and these so arranged that the danger of derangement will be reduced to a minimum. The machine will press from 16 to 20 bales per hour, and can be easily loaded on a one-horse wagon."

# Construction Department

## TO OUR READERS!

In order to understand and follow in order to understand and following up properly the Construction Department Items, please bear in mind the following statements:

#### EXPLANATORY

The MANUFACTURERS' RECORD seeks to verify every item reported in its Construction Department by a full investigation and plete correspondence with everyone in-sted. But it is often impossible to do before the item must be printed, or else lose its value as news. In such cases the statements are always made as "rumored" or "reported," and not as positive items of or "reported," and not as positive items of news. If our readers will note these points they will see the necessity of the discrimina-tion, and they will avoid accepting as a cer-tainty matters that we explicitly state are "reports" or "rumors" only. We are always glad to have our attention called to any rs that may occ

In correspondence relating to matters re-ported in this paper, it will be of advantage to all concerned if it is stated that the information was gained from the MANUFAC

#### ADDRESS FULLY

To insure prompt delivery of communica-tions about items reported in these columns, the name of one or more incorporators of a newly incorporated enterprise should be shown on the letter addressed to that town, or to the town of the individual sought, as may be shown in the item, as sometimes a may be shown in the item, as sometimes a communication merely addressed in the corporate or official name of a newly established company or enterprise cannot be delivered by the postmaster. This will help to insure prompt delivery of your communication, although it is inevitable that some failures ne part of the postal authorities to de mail to new concerns will occur.

## WRITE DIRECTLY

It is suggested to advertisers and readers that in communicating with individuals and firms reported in these columns, a letter written specifically about the matter reported is likely to receive quicker and surer

The Daily Bulletin of the Manufac turers' Record is published every business day in the year for the purpose of giving the earliest possible news in regard to new industrial, railroad and financial enterprises organized in the South. It is invaluable to contractors, manufacturers, engineers and all others who want to get in touch at the earliest moment with new undertakings or the en-largement of established enterprises. The subscription price is \$25 a year. advertising contracts in aufacturers' Record exter Manufacturers' Record extending over a period of three months in-clude a subscription for the length of time of the contract to the Daily extending

## BRIDGES, CULVERTS, VIADUCTS

Ark., Pocahontas.-St. Louis & San Fran Ark., Pocahontas.—St. Louis & San Fran-cisco Raliroad, M. C. Byers, chief engineer, St. Louis, Mo., will construct steel draw-bridge over Black River; channel span 280 feet long; estimated cost, \$100,000; work by company's forces.

Wrightsville.-Wrightsville, Adrain & Lyons Railway Co., W. F. Staten, secretary, Adrain, Ga., will erect two pile bridges; one 800 feet and the other 1000 feet long. (See 'Machinery Wanted.")

Ky., Clinton.-Hickman construction of steel bridges. Ad dress County Commissioners

Ky., Lexington.-Empire Bridge Co. orated with \$2000 capital stock by George Collins and others.

La., Leesville.-Ward 1 of Vernon parish voted tax for bridge and road construction.
Address Police Jury.

Ky., Louisville.-Chesapeake & Ohlo Rail way, F. I. Cabell, engineer, Richmond, Va., is considering proposals for erection of rail-road viaduct in East Louisville; length, 1500 feet; height at Clay and 20th Sts., about 22 feet; estimated cost \$100,000.

Ky., Salyersville.—Champion Bridge Co., Wilmington, O., has been awarded contract for erection of two steel bridges in Magoffin county: construction of piers commenced.

La., Shreveport.—City and Bossier parish will open bids May 10 (deferred date) for construction of recently-mentioned bridge over Red River; estimated cost \$300,000; Ira G. Hedrick, 1118 McGee St., Kansas City, Mo., is consulting engineer; C. G. Reeves, Comptroller. (See "Machinery Wanted.")

Okla., Oklahoma City.-City will construct dam, spillway, corewall and concrete bridges in North East Park; bids to be opened May 9; R. E. Brownell, chief engineer of Park Commissioners. (See "Machinery Wanted.")

S. C., Anderson.—Greenville, Spartanburg & Anderson Railway, W. J. Thackston, pres-ident, will construct bridge across Cubbard's Creek on interurban railway between Ander on and Belton; bids invited. (See "Ma hinery Wanted.")

S. C., Rock Hill.-City will construct bridg Catawba River Roddy, Mayor

Tenn., Bartlett.-Shelby county will con Tehn., Bartlett.—Sneiny County win Con-struct 60-foot steel span and two 20-foot ap-proach spans over creek at Bartlett; St. George Richardson, County Engineer, Memphis. Tenn. (See "Machinery Wanted.")

Tex., Batesville.-Zavala County Cor will be ready to receive bids in Jun July for construction of 8 or 10 stee (\$20,000 bond issue recently noted oted for roads and bridges.)

Tex., Dallas.—Dallas county awarded con-tract to Austin Bros. of Dallas to construct Miller's Ferry bridge; cost \$93,000.

Tex., Denison.—City will construct culvert with concrete top across Nelson St.; bids to be opened May 7; J. D. Yocom, City Secre-tary. (See "Machinery Wanted.")

Tex., La Porte. -- Houston & Bay Shore Fraction Co., J. G. Miller, engineer, Houston Tex., will construct steel overhead bridge Tex., will construct steel overhead bridge over Southern Pacific Railway tracks at West La Porte; span will be 75 feet wide, 23 feet above tracks, and will weigh 84,000 pounds; 140-foot approach on either side; cost \$14,500. (See "Electric-light and Power

Va., Luray. Turnpike Co. (Clifford G. Bailey and others) iwarded contract to Southern Construction Ala., for construction of

Va., Matoaca,-Chesterfield County Supva., Matoaca.—Chesterneid County Super-visors, Chesterfield, Va., are considering con-struction of steel bridge over Appomattox River to connect Matozca with Ferndale Park, on Dinwiddle county side.

W. Va., Clarksburg.-Clarksburg & Weston Electric Railway Co., S. L. Watson, president, Fairmont, W. Va., will construct five

W. Va., Fairmont.-Fairmont & Northern action Co., S. L. Watson, president, astruct five concrete and two steel brid

W: Va., Fairmont.—City will vote May 21 on \$75,000 bond issue for construction of bridge and for repairs and changes to water works system; R. G. Martin, Mayor.

W. Va., Wellsburg.—Pennsylvania Railroad, Alex. C. Shand, chief engineer, Broad Street Station, Philadelphia, Pa., contemplates construction of bridge over Bethany pike

## CANNING AND PACKING PLANTS

Ala., Dothan.-Houston Canning & Refining., F. I. Mullen, manager, will establis plant to can tomatoes, sweet potatoes, okra tc.; purchased machinery; will erect \$790 30x60-foot frame building.

Frederick.-Frederick City Abattoir will establish meat-packing plant. (See ous Enterprises."

S. C., Cheraw.-J. P. Swett will establish annery

tract to M. A. McKnight & Co., Beaumont, for rebuilding structure recently noted; 55x80 feet; two stories; cost \$7000; plans by H. C. Mauer & Co., Beaumont; to be occupied by Houston Packing Co.

## CLAYWORKING PLANTS

Ga., Columbus—Brick and Terra-cotta.— Southern Brick & Terra-Cotta Co. incorpo-ated with \$70,000 capital stock by A. Iliges F. W. Bates and W. Mercer Morris; acquired roperty of Muscogee Brick Co.

Md., Baltimore.-Edward Bennett Pottery Co., 1301 Fleet St., has plans by John Freund, Jr., 210 East Lexington St., Baltimore, for five factory buildings at Eden St. and Cauton Ave.; three stories; brick; about 29x244 feet; cost \$25,000. No bids wanted.

Mo., Shelbina—Clay Products.—Jacob Raby, president of Shelbina Brick & Tile Co., purhased 113 acres of land conta lay deposits and will develop.

N. C., Greensboro-Brick -- James W. Jenwill establish brick plant.

Tex., Ferris-Bricks,-Globe Press Brick Co., T. P. Weatherford, president, is pro-ceeding with construction of plant recently noted to be rebuilt; day's labor; machinery purchased; plant to be in operation within 40 days.

Tex., Tenaha-Bricks.-J. J. E. Gibson establish brick plant: will install brick kiln Va., Grafton-Brick.-I. M. Shute purhased Loyce brick plant for \$8000; will make

W. Va., Charles Town.-Valley Brick Co (recently reported incorporated with \$25,000 capital stock) organized with John Strother, president and general manager; H. P. Cline, vice-president; Thomas R. Moore, secretary; awarded contract for equipment.

W. Va., Keyser.—H. W. Dickey, Wheeling, W. Va., purchased and will operate plant of Keyser Pottery Co.; two-kiln; annual capacity \$60,000 worth of pottery.

## COAL MINES AND COKE OVENS

Ky., Salyersville,-Through Attorney N. P. Howard, capitalists of West Virginia have closed contracts at \$100,000 for 10,000 acres coal lands in Magoffin county, along borders of Floyd, Breathitt and Knott counties; surreying, abstracting, etc., to be commenced

Ky., Wasioto.-Asher Coal Mining Co. in orated with \$350,000 capital stock by T. J. Asher, H. H. Asher and others of Wasiot and Wm. Low of Pineville, Ky.; will develo three leases; No. 1 mine on Crane Creek, 50 acres; No. 2 mine on Cumberland River, 200 cres; No. 3 mine on Toms Creek, 7000 acres No. 2 mine equipment, costing \$150,000, open ating in 30 days; at once open proposals for other equipment; machinery purchased in-cludes 500-kilowatt alternating-current generator, steam turbine, bollers, shaker screens ower to be conveyed to two other mines rom power-house at No. 2 mine; 10,000 volts. "Machinery Wanted.")

Ky., Louisville.-Greasy Fork Coal & Tim ber Co. incorporated with \$250,000 capital stock by R. Carnahan, A. V. Thompson, Thomas R. Gordon and A. S. Rice, all of Louisville; John G. White, Winchester, Ky.; se and develop coal and timbe and in Harlan, Letcher and Leslie c

Mo., Shelbina.-Jacob Raby, president Shelona Brick & Tile Co., purchased coal and clay lands and will deed 113 acres of

Okla., Wilburton,-Choctaw Coal Co. organ ed with \$350,000 capital stock to develop W. Thomason tract of coal land, comprising out 3480 acres. Address company, care Mr.

lates developing coal mines.

Tenn., Harriman.—Tennessee Timber, Coal k Iron Co., Chas. W. Whitcomb, general nanager, 161 Devonshire St., Boston., Mass., is reported to have purchased 20,000 acres al and timber land.

Tex., Bastrop.-W. C. Silliman, San Anto nio, Tex., will develop 450 acres of coal land. W. Va., Bluefield.—United States Coal & oke Co., Carnegle Bldg., Pittsburg, Pa., lans to develop another coal mine—No. 13.

plans to develop another coal mine—No. 13.

W. Va., Bluefield.—Central Pocahontas Collieries Co. will develop additional coal mine.

W. Va., Clarksburg.—Peacock Coal Co. is preparing to develop coal mines.

W. Va., Fairmont.—Hutchinson Coal Co. incorporated with \$1,000,000 capital stock by

M. L. Hutchinson, C. E. Hutchinson and C.

H. Jenkins of Fairmont, V. L. Highland and

S. C. Benham of Clarksburg. W Va.: under-S. C. Denham of Clarksburg, W. Va.; understood company will acquire various existing mining plants and coal lands; C. H. Jenkins, secretary-treasurer, advises Manufacturers' Record that authoritative statement will be nade later.

## CONCRETE AND CEMENT PLANTS

Ala., Montevallo.—Atlas Portland Cement Co., 30 Broad St., New York, has, It is re-ported, purchased 400 acres of shale deposits with view to building Portland cement plant. Miss., McComb City.-J. N. McDonald and W. A. Andrews will establish plant for manMo., St. Louis.—Modern Cement Products Co. incorporated with \$15,000 capital stock by John Nyflot, Henry Otto, Charles Nelson, James H. Leathers and others.

## COTTON COMPRESSES AND GINS

Ga., Tifton.—D. A. Carter and associates, Atlanta, Ga., will establish cotton gin. (See "Cottonseed-oil Mills.")

La Mansfield - J W. Porter contemplates organization of company to establish cotton gin; will erect building; machinery order

La., Mansfield.-Wm. C. Pegues is int ested in organization of company to establish cotton gin; will open bids shortly for erection of building; capital stock \$10,000

Tex., Pearsall.-J. W. Devilbliss and J. W. Ward will establish \$10,000 cotton gin.

Tex., Kosse.-Munger Gin & Oil Co., Mexia, will establish cotton gin; five 80-say

#### COTTONSEED-OIL MILLS

, East Point.—Gresham Manufacturing Griffin, Ga., has contract to erect \$50,000 otton-oil mill.

Ga., Tifton.—D. A. Carter and associates of Atlanta, Ga., will establish cottonseed-oil mill and cotton gin; cost \$80,000.

S. C., Woodruff.—Woodruff Cotton Mill Co. changed name to Woodruff Oil & Fertilizer Co. and increased capital stock from \$20,000 to \$35,000 : same officers : W. F. Bryson, president and treasurer; R. D. Bryson, secret (Recently incorrectly noted under "S. Polumbia.")

## DRAINAGE AND IRRIGATION SYSTEMS

Ark., Paragould.-Waddell & Mitchell, en gineers, of Paragould, are making surveys for construction of Locust Creek ditch No. 2 and Greene and Lawrence county ditch; lat and Greene and Lawrence county ditch; iar ter is for purpose of straightening and widening Cache River, and is designed to drain entire Cache Valley; it will have 60 miles of laterals in Greene county and 40 miles in Lawrence county; estimated cost, \$500,000; J. T. Sain, H. E. Walker and Edvington, viewers on Locate Creek ditch Edrington, viewers on Locust Creek ditch No. 2, are preparing report.

Fla., Tallahassee.-Board of Drainage Comers of Florida, J. C. Luning, missioners of Florida, J. C. Luning, secretary, will open bids June 15 for excavation of five drainage canals in the Everglades; aggregate length, 235 miles; excavation, 18,000,000 cubic yards of earth and 6,000,000 cubic yards of rock; J. O. Wright, chief drainage engineer. (Recently mentioned. See "Ma-chinery Wanted.")

La., St. Bernard.-Sebastian Rov. Gustave Jacques, N. H. Nurez and others are inter-ested in reclamation of 27,000 acres of swamp land in St. Bernard parish; received bids from engineers for making surveys.

Mo., Doniphan.—Commissioners of Naylo Drainage Ditch District No. 1 awarded con tract at 8 cents per cubic yard to Otto and J. S. Kotchtitzky, Cape Girardeau, Mo., to construct main drainage ditch; length nine miles; drain about 15,000 acres; require re-moval of 278,000 cubic yards of earth; cost of work when completed, about \$33,000; A. C. Spikes, civil engineer, Bloomfield, Mo., is in

Okla., Oklahoma City. - Oklahoma Land Okla., Oklahoma City. — Oklahoma Land Reciamation Co. organized with \$200,000 capital stock by Anton H. Classen, John W. Shartel, O. P. Workman, W. A. Haller and M. L. Spitler; will dredge North Canadian River between Western and Pennsylvania Aves. to depth of 10 feet and width of 200 feet; soil removed to be used to raise adjacent lands from two to six feet; equipment, including high-power dredging plant, pumps, outloops at the head portered; about 2000. cutters, etc., has been ordered; about 2000 acres of land will be reclaimed.

Tenn., Trenton.—North Fork Drainage District, J. W. Jetton, president, will have surveys made for drainage system.

Tex., Chapin.—Valley Reservoir & Canal Co. awarded contract to Hockney, Sammons & Lovett of Chapin to construct first eight miles of canal for irrigation of 100,000 acres of land in Hidalgo county in vicinity of Chapin; main canal is to be 35 miles long; about 50 miles of laterals; Lake Concepcion is to be used as reservoir; Fred Warren of Chapin is engineer in charge. (Further facts recently mentioned.) recently mentioned.)

Tex., San Antonio.—Edgewood Irrigation 'o. incorporated with \$6720 capital stock by

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George W. Foote, Hamer H. Griffith and and bids not later than June 1; will take up

## ELECTRIC-LIGHT AND POWER PLANTS.

Ark., Harvard (not a postoffice).—St. Louis & San Francisco Railroad, M. C. Byers, chief engineer, St. Louis, Mo., will install electriclight plant.

Ark., Waldron.-City is having plans pre pared by E. W. Gantt of Sequoyah Engineering Co., Fort Smith, Ark., for electric-light

Fla., Milton,-City voted \$5000 bond is: for construction of electric-light plant. Ad dress The Mayor.

Ga., Cairo.—City voted May 2 on issuanc of 36000 of bonds for extension of electric light system. Address The Mayor.

Ga., Sylvania.-City voted issuance of \$49. 600 of bonds for construction of electric plant, sewer system and water-works. dress The Mayor.

Ky., Albany.—S. G. Smith, E. Bertram and Hancock Bros. purchased water mill and eight acres of land; will install electric-lighting plant.

Md., Baltimore.-Wehr, Walden & Duke hart, 412 Continental Bldg., are engineers in charge of construction of gravity dam to re charge of construction of gravity data to re-place wooden dam; concrete; 250 feet long; 2000 cubic yards concrete; now ready for con-struction proposals. (See "Machinery Wanted.")

Md., Elkton.—Elkton, Fair Hill & Oxford Electric Railway & Power Co. will construct electric-power plant.

Mo., Tipton.—City contemplates voting or suance of bonds for construction of electric light plant; cost \$15,000; Joseph Sommer hauser, City Clerk.

Mo., Osceola.-Utt Bros. and L. J. High land, engineer, of 108 La Salle St., Chicago land, engineer, of 108 La Salie St., Chicago, 111., are promoting construction of steel and concrete dam across Osage Run; crest of dam 10 feet above low-water mark; cost of construction \$25,000; equipment to cost \$25, 000; auxiliary plant \$50,000; 1000 horse-power capacity

N. C., Durham.-Southern Power Co. o. N. C., Durnam.—Southern Fower Co. of Charlotte, N. C., has completed surveys and selected rights of way for construction of system of wires to transmit electricity to Durham from water-power-electrical devel-opments; system to include steel towers 55 feet high; rumored that an auxiliary steam plant will be erected.

Okla., Francis.-City is negotiating with W. L. Bell, representing Federal Utility Corporation, Kansas City, Mo., for construction of electric-light plant. (See "Ice and Cold-Storage Plants.")

S. C., Greenville.—Southern Power Co., Charlotte, N. C., awarded contract to Dixie Concrete Co. of Greenville to construct power-house near Monaghan Mill and reservoir. 350x700 feet, in connection with \$300,000 steam power plant recently mentioned; Westing-house Electric & Manufacturing Co., Pittsburg. Pa., has contract for equipment.

C., Greenville .- J. Thomas Arnold is chairman of committee proposing organization of company with \$100,000 capital stock

tion of company with \$100,000 capital stock to establish electric-light plant.

Tenn., Elizabethton.—Doe River Lighting & Power Co. awarded contract to Lowe Construction Co. of Bristol, Tenn., for construction of dam at Horseshoe Bend on Watauga River; dam 300 feet long, 50 feet high and 48 feet wide; develop 3000 horse-power for transmission by electricity; Doe River corporation has contract to furnish electricity to Bristol Gas & Electric Co. of Bristol; Doe River corporation states details Bristol; Doe River corporation states details of Elizabethton; dam of solid concrete; 50 feet high to spillways; 185 feet long; 40 feet on base; penstock of reinforced concrete, 3 feet wide, 80 feet long, 25 feet high; power house 30x80x20 feet high, 40x100 feet, of concrete; tail race 300 feet long by 40 feet wide by 6 feet deep; foregoing construction estimated to cost \$77,000; cost complete, with water-power and electrical machinery, \$250,000; electrical machinery will include two 1000 kilowatt generators, three-phase, 60 cycles, 2300 volts; three transformers for one of these units and to step current up from 2300 to either 22,000 or 33,000 volts; three transformers to step this voltage back to 2300 volts; switchboard complete, with instruments, copper wire, etc., for 22-mile transmission line of high voltage; water-power machinery will include three units of turbines to operate under 50-foot head and develop 1200 horse-power each; two governors to control speed regulations. Doe River company, J. H. Grayson, general manager, in market for above machinery and invites inspection of property not later than May 16 water-power and electrical machinery, \$250

electrical proposition as soon as speed of wheels is determined. This plant previous ly announced proposed. (See "Machinery Wanted.")

Tex., Austin.—City officials signed contract with J. C. Dumont of Austin, representing Tex., Austin.—City officials signed contract with J. C. Dumont of Austin, representing Dumont-Holmes Steel Concrete Co. of Chicago, Ill., and Detroit, Mich., for construction of dam on site of dam previously destroyed by flood; (Council passed ordinance ratified by municipal vote recently); reinforced concrete construction; mechanical equipment to include three 1000-horse-power turbine. Two 500-horse-power turbines, two mecha-horse-power quipment to include three 1000-horse-power urbine, two 500-horse-power turbines, two numps, each of 6,000,000 gallons capacity pumps, each of 6,000,000 gallons capacity daily; electrical generators, etc., for develop-ing 3750 horse-power; Mr. Dumont has placed order for most of machinery, and has proposals for balance of material; begin construction within 90 days. Address J. C. Dumont at Austin. (Other details reported recently.)

Tex., Beaumont.-1. D. Polk applied for franchise to construct and operate electric-light and power plant. (Recently incorrectly noted under Tex., Houston.)

Tex., Cleburne,-Gulf, Colorado & Santa Fe allway, F. Merritt, chief engineer, Galveson, Tex., will erect power plant; building to be fireproof; 40x180 feet; concrete foundation : cement floor.

Tex., Handley.-Northern Texas Traction Co. contemplates construction of power use to cost \$30,000.

Tex., Hempstead Light & ower Co. Incorporated with \$10,000 capital ock by M. Schwarz, John C. Amsler, J. D. Harvey and others.

Harvey and others.

Tex., La Porte.—Houston-Bay Shore Traction Co., J. G. Miller, engineer, Houston, Tex., will construct power plant and carbarn; concrete construction; steel frame; length 225 feet; width 175 feet; helght 24 feet; generating power plant is to be installed with capacity of 10,000 voits or 900 horse-power; steam is to be used exclusively as generating power; section of structure to be used for storing cars will accompandate. as generating power, section of structure to be used for storing cars will accommodate 12 passenger cars, 2 baggage and 2 general construction cars; estimated cost, \$110,000; company will also build subpower plant and passenger station at South Houston, but on maller scale; will also erect six cement assenger and express depots. (See "Bridges, Culverts, Viaducts, etc.")

Va., Graham.—Graham Water & Electric Co. (recently mentioned) has not completed organization; Jas. F. Dudley will be presi-dent; Wm. Mitchell, vice-president; R. B. Williamson, secretary; C. W. Kelster, treas-urer. (See "Water-works.")

Va., Richmond.—City awarded contract to Storms & Co., Newark, N. J., at about \$55, 000 to construct overhead distributing sysof municipal electric plant. (Recently

## FERTILIZER FACTORIES

Fla., Jacksonville.-Wilson & Toomer Co inny will make improvements to plant, in uding erection of 60-foot addition to ware ouse and addition to main building, 60x400 feet; also install electric tramway system

La., New Orleans .- J. A. Coyle plates establishment of fertilizer factory.

Md., Baltimore.-Baugh & Sons Company Calvert and Water Sts., will rebuild portion of plant reported burned at Clinton and 11th Sts.; loss \$30,000.

N C. Beaufort.-Doan & Bartlett Co pany incorporated with \$12,000 capital stock by F. A. Doan, Jr., W. A. Moore and Henry W. Noe.

S. C., Chester.—S. J. Charlton, Chicago, Ill., and F. R. Bates of Wilmington, N. C., will establish fertilizer-mixing plant; 200 feet long; 10,000-ton capacity.

## FLOUR, FEED AND MEAL MILLS

Fla., Brooksville.—J. L. and R. W. Boynton will establish water mill for grinding corn, hulling beans and rice.

Tenn., Memphis.—August J. Butle Milling
Co. Incorporated with \$25,000 capital stock

by August J. Butle, D. P. Hughes, A. T. B.

Dun and others.

Tex., Balmorhea.—Toyah Valley Alfalfa
Milling Co. incorporated with \$25,000 capital
stock by E. D. Balcom, W. R. Baughman and

W. Va., Union.—A. J. Dixon will probably rebuild flour and feed mili reported burned; loss \$4200.

## FOUNDRY AND MACHINE PLANTS

Ala., Birmingham-Molding Device.—Chas. King will establish plant for manufacturing patented molding device for making brass furls.

Ala., Bessemer-Iron Pipe,-United States Cast Iron Pipe & Foundry Co. plans enlar ment of plant in future; details not decid

Ky., Covington-Foundry.-Kenton Foun Co. increased capital stock to \$15,000

Washington.-Firth-Sterling Steel O. of Pittsburg, Pa., will erect shops at Glesboro Point; brick construction; cost \$13, 90; Washington address, P. O. Box 812.

St. Louis-Stoves.-American Sto Mo. will erect six factory buildings; one and stories; cost \$225,000.

Miss., Biloxi-Machine Shop, etc.-Biloxi Machine Works organized with William Go-renflo, president; George B. Elder, general renno, president; George B. Elder, general manager; Lee Elder, secretary; J. C. Clow-er, treasurer; consolidation of G. B. Elder & Co. and Desporte Bros.; offices, 448-450 Delauney 8t.; will conduct general machine shop, automobile garage, etc. (See "Machin-ery Wanted.")

Okla., Ramona—Machinery.—Ramona Ma-chine Co. incorporated with \$10,000 capital stock by J. B. Hinkle, C. E. Menger, both of Ramona, and F. I. Louir of Tulsa, Okla.

Mo., St. Louis.—Emrick Power Hammer Co. incorporated with \$10,000 capital stock by Frank C. Emrick, T. W. Remmers and C

Tenn., Memphia-Machinery and Tor Motley-Goodlet-Richmond-Motley Muchine & Fool Co. lacorporated with \$5000 capital stock by J. E. Goodlet, John S. Motley, W. L. Mc ioldrick and others

Va., Alta Vista-Hay Balers.-Dam chinery Corporation incorporated with \$120, 600 capital stock; H. L. Lane, president Vista; C. M. Perrow, vice-president, hburg, Va.; A. G. Bell, secretary-treas-Alta Vista; will manufacture Damron Alta hay baler.

W. Va., Glendale-Anti-friction Metal. Wheeling Metal & Manufacturing Co., Wheeling, W. Va., will rebuild portion of plant reported burned; loss \$12,000; contract awarded; machinery order placed.

W. Va., South Charleston-Forging win Forging & Tool Co., Frank M. Baldwin, president, Columbus, O. (recently noted con-sidering Charleston as location for proposed plant), will make location decision early in May; contracted for machinery; will er building with about 100,000 square ground floor space; brick, steel and sla building proposals opened in about weeks; plans, by F. L. Packard of Columb to be ready about May 7: plant to have dally canacity of 500 shovels, spades and se

## GAS AND OIL DEVELOPMENTS

Ark., Little Rock.-Arkansas Natural Ga-Co. awarded contract to Behn Cook, Marshall Tex., to survey pipe line from Caddo (La.) gas fields through to Camden, Hot Springs and Little Rock; 200 mlles.

Mo St Joseph St Joseph Oil Co in porated with \$10,000 capital stock by Albert Hindera, Con P. Hindera and James B O'Connor

Okla., Byars.-Byars-Stratford Oil & Gas Co. incorporated with \$30,000 capital stock by Zene Foster of Byars, H. G. Foster of Stonewall, Okla., and Whit. W. Hyden, Sr., of Stratford, Okla

Okla., Nowata.-Coleman Oil & Gas Co. corporated with \$10,000 capital stock by E.
B. Lawson, Nowata; A. L. Hill, Neodesha,
Kans., and C. H. McCready, Bartlesville, Okla.

-Old Mission Oil Co corporated with \$12,000 capital stock by W E. Wood, O. E. Filey and Jay McCready.

Okla., Tulsa.—Grande Oll Co. incorporated with \$25,000 capital stock by William N. Silla of Nowata, Okla.; J. F. McCandless and J. E. Ward, both of Chanute, Kans.

Tex., Normangee.—Normangee Oil & Gas to incorporated with \$20,000 capital stock by D. McDonald, J. D. Cowden and D. E.

W. Va., Grafton.-Standard Oil Co., Broadway, New York, is reported to have purchased holdings of Manufacturers' Light & Heat Co. in West Virginia for \$3,000,000; properties include oil and gas lands, gas and wells, pipe lines, etc.

Va., Parkersburg.—Cooper Oil & Gas Co. incorporated with \$32,000 capital stock by Charles E. Braden, C. L. Brown, K. Snod rass and others.

W. Va., Wheeling .- Schnegg Oil & Gas C incorporated with \$10,000 capital stock by Benjamin L. Rosenbloom, E. S. Bippus, E. H. Rau and others.

## ICE AND COLD-STORAGE PLANTS

Ark., Marion.—Frisco Ice Co. incorporated with \$25,000 capital stock by C. W. Copeland, Tonny Howell and J. T. Copeland.

Ga., Millen.-Enterprise Ice Plant, John M. nfield, proprietor, purchased machinery ice plant recently noted; 10 tons ca-

Ga., Nashville.-Nashville Ice & Manufac-Gia., Nashville.—Nashville Ice & Manufac-turing Co., recently reported incorporated with \$10,000 capital stock, will erect 40x60-foot wooden building; ordinary construction; coat \$1000; company's force will erect; ma-chinery purchased; 10 tons of ice and colid storage daily capacity; B. A. Beale, Jr., pres-iden; W. E. Algee, secretary.

Md., Ellicott City.-Maryland Ice & Manu Add., Editors (1977) and the facturing Co. (recently noted) organized with \$25,000 capital stock; W. W. Parker, president, 22 Central Savings Bank Bidg. president, 25 Central savings Bank Bidg, Baltimore, Md.; August C. Kirn, secretary-treasurer; E. M. Gillet, New Cut Rd., sales agent, both of Ellicott Clty; will manufac-ture beverages and ice; cost of real estate and plant, \$5500.

Okla., Francis.-Federal Utility Corpo tion, Kansas City, Mo., is negotiating with city for establishment of ice and electriclight plant and water-works; cost \$200,000 to

Tex., Houston.-Transit Ice Co. is organ Tex., Houston.—Transit Ice Co. is organizing to establish icing and refrigeration plant on Texas and New Orleans tracks for Harriman lines in Texas; facilities for icing train of cars in 15 minutes and able to ice 15 cars without shifting; storage capacity 100 tons; ice will be transferred direct from plant to bunkers of cars either by chain con-reyors or live rollers; operated by electricity.

Tex., Mart.-J. B. Earle may be addressed clative to erection of proposed ice plant. Tex., Luling.-Luling Ice & Refrigerating to incorporated with \$10,000 capital stock by Ted H. Milburn, Merton H. Abbott and G Everett Coley.

Tex., Taylor.—Taylor Ice Co. Incorporated with \$50,000 capital stock by G. E. Kiug, A. J. Zilker and Noyes D. Smith.

Tex., Taylor.—Taylor Ice Co. incorporated ith \$50,000 capital stock by G. M. King, A. J. Zilker and Noyes D. Smith.

W. Va., Shepherdstown.—Johnson & Miller Company Incorporated with \$10,000 capital stock by F. L. Johnson, J. H. Miller, J. L. n and others

## LAND DEVELOPMENTS

Aia., Birmingham.—Lockerable Land Co. incorporated with \$3000 capital stock; For-ney Johnston, president; E. W. Rucker, vice-president and treasurer; E. W. Rucker, Jr., secretary.

Ala., Ensley .-- Corey Heights Land & Im rovement Co. organized with \$50,000 capital tock by J. M. Perkinson and J. J. Walker; purchased land adjoining east side of Corey

Ala., Citronelle.-H. and J. Riedemann and Mr. Cramer of Callao, Mo., purchased Mie hard fruit orchards and will convert portion into truck fields; contemplate establishment of ice and electric-light plants and construction of lake later.

Ala., Gadsden.-Greenwood Land Co. ganised with C. C. Baxter president, T. U. Walker vice-president, M. M. Ullman secre-tary; will develop residential section.

Ark., Little Rock.-North Arkansas Town. site Co., recently reported incorporated with \$50,000 capital stock, will develop townsites; W. B. Smith, president; R. C. Wilkins, vice-president-treasurer; F. J. Schmutz, secretary.

Fla., Chipley.—Glen Land Co. incorporated with \$50,000 capital stock by John B. Glen, S. A. Alford, E. N. Dekle and others.

Fin., Garden City.—Dixie Land Co. incorporated with \$2500 capital stock by J. P. Davis, W. A. Little and P. A. Davis.

Fla., Jacksonville.—Suburban Realty Co. incorporated with \$30,000 capital stock by Wm. H. Hamrick, Frank E. Jennings and Eugene Hale.

Fla., Jacksonville. - Okeechobee Fruit Lands Co. Incorporated with \$100,000 capital stock by R. J. Bolles, W. S. Jennings, A. W. Cain and othe

Fig., Jacksonville,-David E. Geeghley pursed for Dayton (O.) capitalists 8000 acres and, for about \$125,000; will subdivide and of land, for

Fla., Ocala.-E. P. Rentz purchased 125,000 cres of land and will develop for colonization purposes.

Fla., Ocala.-New South Farm & Home Co. purchased 60,000 acres of land and is arrang-ing for 100,000 additional acres; will colo-

orporated with \$25,000 capital stock by Cl ter Kennison, C. G. Murphy and T. P. War-

Fla., Orlando.-Concord Park Development Co, incorporated with \$16,000 capital stock by

T. Pictor Warlow, Moses O. Overstreet and L. L. Payne

Fla., St. Augustine.-Simmons & Holmes purchased 1000 acres of land, and will cultivate celery.

Fla., Tampa.-Warder-Limbach Realty incorporated with \$200,000 capital stock by W. J. Warder, Charles Limbach and W. J. War-

Fla., West Palm Beach.-Palm Beach Improvement Co. Incorporated with \$100,000 cap ital stock; E. N. Dimlek, president; H. G Geer, vice-president; George W. Jonas, sec retary-treasurer.

Ca Atlanta - Thatcher Improvement Co corporated with \$10,000 capital stock by W. Thatcher, C. L. Shane, C. R. Haskins and others.

Ga., Savannah.—Atlantic Investment neorporated with \$10,000 capital stock Walter Woledge, Max B. Erlicher and A. J Merkle

Ga., Savannah.-Montgomery Heights Co Incorporated with \$5000 capital stock by Carl Mendel, C. H. Konemann and Fred Wes

Kentucky.-Mrs. Kate Hawley Kentucky.—Mrs. Rate Hawley of New York, J. A. Crawford, Terrehaute, Ind., and William Carroll purchased site on Kentucky side of Ohio River and will develop factory town to be known as Riverview

La., New Orleans.-Richton Realty Co. in rporated with Joseph F. Walton, president Harry E. Hinrichs, secretary-treasurer,

Md., Baltimore.-Clarence M. Griffin, 515-17 Galther Bldg., purchased Regester farm, be tween Hillen and York Rds., containing 228 neres, for \$60,000; will subdivide into 400 building lots, install sewerage system and pumping station to supply water, macadamize roads, erect dwellings, etc.

Mo., Kansas City.—North Side Develop-ment Co. incorporated with \$20,000 capital stock by Mason Dean, J. W. Reinhart and Oatley Leming

N. C., Winston-Salem.—Southern Development Co., H. A. Stecker, engineer, is devel Co., H. A. Stecker, engineer, is devel-60 acres of land for residential section, known as Crafton Heights.

Okla., Carmen.—Carmen Improvement Concorporated with \$15,000 capital stock by R. Mimms, John Roll and F. F. Wentworth.

S. C., Charleston.—Charleston Guaranty & Investment Co. organized with \$300,000 capi-tal stock; R. Goodwyn Rhett, president; T. Hyde, vice-president and treasurer : T. T. Hyde, Jr., secretary.

S. C., Greenville,-Hugenot Land Co. Inc. porated with \$30,000 capital stock by J. A. Norwood, Lewis W. Parker and H. J. Hayns

Tenn., Chattanooga.—Lookout Realty Co., 7 East 5th St., organized with \$25,000 capital stock by W. J. Bass, W. T. Tyler, L. M. Thomas and others.

Tenn., Memphis.-Clover Lawn Realty Co. incorporated with \$10,000 capital stock by Ralph A. Slocum, W. P. Biggs, C. A. Price

Texas.-New York-Texas Land Co. Incorpo rated with \$250,000 capital stock by John & Turner, 17 Exchange Pl., Jersey City, N. J. Worden E. Winn and Leon M. Woodworth both of 2 Rector St., New York, and others.

Winchester.-Rosen ont Orchard Cor poration incorporated with \$25,000 capital stock by H. F. Byrd (president), W. D. Smith and E. W. Smith.

W. Va., Stouts Mills.-Martin Deve Co. incorporated with \$25,000 capital stock by Geo. M. Martin, Roy Martin and others.

## LUMBER-MANUFACTURING PLANTS

Attalla.-John Hays and associates will establish planing mill; cost \$10,000; ma-chinery purchased.

Glenwood.-Glenwood Sawmill Co. Ark., Glenwood.—Glenwood Sawmill Co. F. McL. Alexander, proprietor, purchased machinery for sawmill recently mentioned; daily capacity 35,000 feet yellow pine lumber.

Ark., Pine Bluff.—Saline River Lumber Co., Toronto, Canada, contemplates, it is report-ed, establishment of hardwood mill either at Pine Bluff or Fordyce, Ark.

Ark., Prescott.-Prescott Land & Timber proprated with \$50,000 capital stock Nat Martin, president; M. L. Moore, vice-president; John A. Davis, secretary-treas-urer; B. B. Young, manager; purchased 8000 acres of timber land in Clark county and will establish sawmill.

Ark., Fordyce.-Saline River Lumber Co. onto, Canada, contemplates, it is report establishment of hardwood mill. (See (See

Ark., Texarkana.-R. L. Trigg Lumber Co., reently reported incorporated with \$10,000

capital stock, will continue operation of established plants; R. L. Trigg, president; Jose Fuqua, vice-president; R. W. Johnson ecretary

Fla., Brooksville.—Central Cypress Lumber Co. organized by Edgar A. Roberts, Coleman Fla., and associates; to develop tract of cy press timber in Hernando county.

Fla. Fort Lauderdale - H. R. Brown

Fla., Jacksonville.—Gillespie Lumber rganized with \$50,000 capital stock. D organized with \$50,000 capital stock; D. L. Gillespie, president, Pittsburg, Pa.; E. I. Burdette, secretary; E. L. Wolff, treasurer, both of Jacksonville.

Fla., Leesburg.-Lake Land & Lumber Co. Fig., Leesburg.—Lake Land & Lumber Co.,
Monroe, N. C., recently reported incorporated (under Monroe) with \$100,000 capital
stock, has purchased lands and will establish lumber plant; will open machinery bids
at once; R. B. Redwine, president; John R.
English, vice-president; John C. Sikes, secretary-treasurer; Jas. H. Williams, manager. (See "Machinery Wanted.")

Fla., Manatee County.—R. S. Hall, Ocala, la., purchased for development 66,000 acres er land

Fla., Ocala,-Roess Lumber Co. inc rated with \$50,000 capital stock by M. Roess, C. L. Anderson, C. P. Moore others.

Fia., Ocala.—Ocala Lumber & Supply Co. neorporated with \$50,000 capital stock by M. I. Roess, C. L. Anderson, C. P. Moore and others.

Ga., Macon.-W. F. Suber & Co. it rated with \$15,000 capital stock by Suber. M. T. Elder and others.

Ga., Macon.-W. F. Elder Lumber Co. in-orporated with \$12,000 capital stock by W. Elder, N. T. Suber and others.

Ga., Valdosta.-J. M. Youngblood Company incorporated with \$15,000 capital stock by J. M. Youngblood, T. O. McLendon and J. F.

Ky., Bowling Green.-L. C. Gooch Lumbe Co. increased capital stock to \$40,000; will install band saw (to replace circular saw) and double capacity.

Ky., Jackson.-W. A. Williams, J. W. Johnson and others of Johnson Lumber Co., Huntington, W. Va., purchased 27,000 acres of timber lands in Breathitt county; will install portable sawmills.

Ky., Louisville.-Greasy Fork Coal & Tiu incorporated with \$250,000 capital stock; John G. White, president, Winche ter, Ky. (See "Coal Mines and Coke Ovens."

La., Huggins, P. O. Singer,-Batson & Hat Lumber Co. organized with \$50,000 capt stock; R. Batson, president; W. H. Hat tal stock; R. Batson, president; W. H. Hat ten, vice-president; N. P. Hatten, secretary treasurer.

La., Eunice.-Alexander Hardwo ganized with \$5000 capital stock; Ed Alexander, president; J. C. Blevins, vice-president; T. B. Milkey, secretary-treasurer.

La., Roseland.-L. J. Patenotte will estab lish lumber plant to manufacture 30,000 feet velle w pine daily; cost of plant, equipped t \$4000; two mill-construction building about \$4000; two mill-construction to be planned and erected by owner.

Loring -Bowman-Hicks Lumber Co rebuild planing mill reported burn

Miss., Newton.-Newton Lumber & Many acturing Co. will establish band-saw ally capacity 35,000 feet of lumber; ma ery purchased.

Miss., Tylertown.—Rex Lumber Co. incorporated with \$10,000 capital stock by A. H

Ball, Columbia, Miss., and others. Tenn., Hardin County.—H. L. and J. L. Porter of Savannah, Tenn., purchased Love-lace timber tract for \$8600.

Miss., Woodville,-F. D. Lewis and C. W McKelthen will establish sawmill.

N. C., Elkin.—New Hope Veneer Co. in orporated with \$20,000 capital stock by G. T Roth, Elkin Veneer & Manufacturing Co. and Roth, Elkin V. S. M. Arnold.

N. C., Garland.-Fleming Bros. Lumber Manufacturing Co. incorporated with \$100,000 capital stock by George W. Fleming of Garland, Clarence D. Fleming of Pocomoke City, Md.: Berton S. Reese of Allentown, Pa., and William M. Fleming of Scranton, Pa

N. C., Monroe.-Lake Land & Lumber Co R. B. Redwine, president (recently reported incorporated with \$100,000 capital stock), will establish sawmill in Florida. (See Fla., Lees burg.)

Okia, Muskogee.—Page Lumber Co. Incorporated with \$10,000 capital stock by J. F. Hufbauer, Emma C. Hufbauer, both of New-

S. C., Charleston.—Oak Lumber Co. incorporated; C. F. Muckenfuss, president.

S. C., Rock Hill.—Syleccau Manufacturin; to. increased capital stock from \$10,000 to

Tenn., Charlotte.-H. Lumb rated with \$5000 capital stock by Pitt Hens lee, S. G. Hollend, S. G. Robertson and others.

Tenn., Harriman.—Tennessee Timber, Co. & Iron Co., Chas. W. Whitcomb, genermanager, 161 Devonshire St., Boston, Mass is reported to have purchased 20,000 acres of timber and coal land. ee Timber, Coa

Va., Belle Haven.—S. R. Jones purchased machinery for sawmill recently reported re-built; daily capacity 9000 feet.

Charlotte and Campbell Counties.-Lumber Co., Lynchburg, Vn., will de velop 1000 acres timber land recently noted purchased; oak, poplar and short leaf yel two circular mills, air ated; M. L. Booth, Brookneal, Va., n ager in charge.

W. Va., Parkersburg.—Neal Timber Co. in corporated with \$10,000 capital stock by R. L. McFarland, A. T. Barrett, H. Roy Waugi and others

## METAL-WORKING PLANTS

Ark., Fort Smith-Steel Kegs.-Equitable Powder Co. will establish plant for manufac-turing steel kegs; estimated to use 85,000 to 100,000 pounds of sheet steel monthly.

Ark., Hope—Metal Frames, Screens, etc.— Hope Metal Frame & Screen Manufacturing Co. incorporated with \$20,000 capital stock A. T. Black, president; W. D. Hudson, secretary-treasurer; W. M. Smith, manager.

Ga., Augusta--Metal Tags.—Standard Tag 'o, incorporated with \$15.000 capital stock '. J. Crawford, president, Augusta, Ga. R. G. Hitt, manager, Atlanta, Ga.; A. Hatch, treasurer; H. C. Brown, secrets both of Augusta; will manufacture metags for cotton bales invented by Mr. Hi temporary offices, Empire Bldg., Atlanta, Ga

La., New Orleans-Metal Turpentine Cups Byrd Turpentine Cup Co., L. D. Byrd, man ager, Biloxi, Miss., contemplates establish ment of plant.

Okla., Oklahoma City-Wire Fence.-Ge II. Cox & Co. are organizing Farmers' Wir Fence Co. to establish plant near Delma: Heights. Address care of Real Estate Ex

Staunton - Shingles. Va. - Gossett. Crorey & Agnew will establish metal-shingl plant recently noted; capacity about 10 squares dally; has rented building and place order for partial equipment of presses and s not elected. Addre s R. N. Me Crorey, Greenville, S. C.

## MINING

Ala., Blue Pond-Iron.-E. J. Bird. Ironto O., and Jack Johnson, owners of Blue I mine, will develop mine to full capacity.

Ala., Fort Payne-Iron.-Fort Payne Fu Iron Co. awarded contract to Alabama Min ing Co. to mine and market iron ore from

La., Pine Prairie-Salt, Gypsum, etc.-F. F. Myles, New Orleans, La., will develop 86 acres of land for salt, gypsum, limestone at

Carthage - Lead and Zinc. French Mining Co., 1426 Missouri Trust Bldg. St. Louis, Mo., recently reported incorporated (under St. Louis) with \$50,000 capital stock, will develop 56 acres; Jesse French, president; Pinkney French, vice-president J. A. Webb, secretary-treasurer.

Miss., Meridian.-El Zapote Mining Co. in propried with \$100,000 capital stock by J. Phillips, Uniontown, Ala., and W. N. King, Toomsuba, Miss.

Mo., Galena — Lead and Zinc. — William Thacker of Colorado and Alex. Campbell of Springfield, Mo., leased six lots on Galena Lead & Zinc Co.'s land: will install additional machinery, work two shafts no property, and probably erect mill.

Mo., Joplin-Lead and Zinc.-Wiser Mining Mo., Johns-lead and Zinc.—Wiser Mining & Development Co., recently reported incorporated with \$50,000 capital stock, will develop 30 acres of land; F. W. Wiser, president; T. J. Barringer, vice-president; V. V. Wiser, secretary; Henry S. Rosenthal, treas urer, main office, 14 Model Bldg.

Mo., Newburg-Lead and Zinc.—Dana Mining Co. incorporated with \$100,000 capital stock by B. H. Rucker, J. W. Scanlan and A. T. Steelman

Okla., Idabel.—Idabel Lumber Co. Incorporated with \$10,000 capital stock by Ben Miller, Jr., J. C. Griffith and William Robinson.

Mo., Joplin — Lead and Zinc. — American Zinc. Lead & Smelting Co. will expend \$750,-000 for extending operations.

Webb City-Lead and Zinc. Mary Mining Co. (recently reported incorporated with \$100,000 capital stock) will dewelop 40 acres; daily capacity 200 tons; Geo W. Ball, president and manager; T. F. Coyne vice-president; T. F. Lennan, secretary-treas

., Webb City-Lead and Zinc Mining Co. incorporated with \$2000 capital stock by W. S. Marquiss, H. E. Marquiss, E. Pulver and R. E. Ball.

Okla., Muskogee.-Golden West Mining Co incorporated with \$150,000 capital stock by Homer E. Jones, P. H. Stein and J. E.

Okla., Oklahoma City-Gravel,-Oklahom vel Co. Incorporated with \$50,000 cap!tal
ck by Lee Van Winkle, A. F. Root and R.

Tenn., Johnson City. — Sand. — Watauga River Sand Co., J. II. Smalling, president, will develop 40 acres of white-sand deposits. (J. H. Smathing incorrectly noted as presi-

Tex., Waco.-Mexico Mining Co. incorporated with \$33,000 capital stock by Charles G. Levi, John M. Dawson and J. S. Kendall.

Va., Craig County — Iron, etc. — John L. Dickinson, cashier of Kanawha Valley Bank, Charleston, W. Va., purchased \$19,000 acres of land containing manganese and iron for \$20,000 from Manganese Iron & Coal Co.

## MISCELLANEOUS CONSTRUCTION WORK

Fla., Jacksonville—Pler.—Mason Forward-ing Co. awarded contract to T. J. Brown of Jacksonville to construct pier; 500x550 feet.

La., Plaquemine Parish — Levee. — State Board of Engineers awarded contract to Doullut & Williams, 213 Macheca Bldg., New Orleans, La., for restoration of Gulf Coast levee; repairing and raising 28 miles; 150,000 yards dirt; cost \$20,000; Major Frank M. Kerr, Cotton Exchange Bldg., New Orleans, La., of Louisiana State Board of Engineers, is in charge. (See "Machinery Wanted. Recently mentioned.)

Miss., Gulfport-Steam Heating System. H. A. Austin, constructing engineer of American District Steam Co., Lockport, N. Y., is surveying streets with view of obtaining franchise to construct underground system of mains for furnishing steam heat.

Miss., Greenville - Levees. - Mississippl Miss., Greenville — Levees. — Mississippi evee Commissioners awarded contracts for construction of 927,000 cubic yards of levee construction, aggregating \$250,000, as fol-bus: Roach & Stansell of Memphis, Tena., at \$112,000 for 527,000 cubic yards at River ton; Clarke, Gibson & Co., Natchez, Miss. at 16.40 cents per cubic yard for 148,000 cubic vards in section 3 at Shiloh, and to Roach & Stansell at \$50,000 for 252,000 cubic yards in sections 1 and 2 at Shiloh; latter contract

## MISCELLANEOUS ENTERPRISES

Ala., Birmingham-Sand, etc.-Empire Sand & Supply Co. incorporated with \$10,000 capi-tal stock; A. R. Orr, president; W. B. Alex-ander, secretary-treasurer; R. G. Alexander,

Ala., Montgomery — Builders' Supplies. — Empire Sales & Supply Co. incorporated with \$10,000 capital stock; A. B. Orr, president; R. G. Alexander, vice-president; W. B. Alexander, secretary-treasurer.

Ark., Harrison - Hardware - Cantrell-Eoft Hardware Co. incorporated with \$12,000 capital stock by H. E. Cantrell, L. F. Eoff and

Ark., Little Rock-Construction.-Stewart Ghee Construction Co. Incorporated with ,000 capital stock by W. R. Stewart, Ben McGhee and Abner McGhee.

Fla., Jacksonville - Phosphate Elevator.-ummer Lumber & Phosphate Co. will re-pulld phosphate elevator reported damaged by storm.

Fla., Jacksonville-Laundry.-Laundry Inria., Jacksonville-Laundry,—Laundry investment Co., T. W. Dunk, president, awarded contract to L. M. Boykin, Jacksonville, for erection of plant recently noted; to be occupied by New York Steam Laundry; building to be three stories; 100x105 feet; reinforced concrete; fireproof construction; plans by McClume 4, McClume 4, McClume 1, McClume plans by McClure & Holmes, Jacksonville will install laundry machinery, bollers, en gines, feed-water heater and water softener; estimated cost of plant \$30,000.

Fla., Tampa—Garage.—H. T. Lykes awarded contract to Dekel & McGucken, Tampa, for erection of garage for Florida Gas En-

gine & Automobile Co.; two stories; 70x90 feet; pressed-brick exterior; first floor solid concrete; interior modified mill construction; cost, including equipment, \$16,000; plans by Bonfoey & Elliott, Tampa. (Recently mentioned.)

Ga., East Point-Printing.-W. Tom Callahan will rebuild printing plant reported burned; loss \$1000.

Ga., Savannah — Laundry and Cleaning f'lant.—A. W. Solomon purchased and will install additional equipment for dry cleaning for E. & W. Laundry; also shirt and collar ironing devices.

Ga., Savannah—Stevedore.—Savannah Stevedore Co. Incorporated with \$10,000 capital stock by George E. Cope and William S. Daffin of Savannah and W. W. Baker of Baltimore, Md.

Ky., Lexington — Garage.—Phoenix Garage Co. awarded contract to F. R. Dalton, Lex ington, for erection of garage; cost \$25,000.

Ky., Louisville — Construction. — Audubon Construction Co. Incorporated with \$100,000 capital stock by G. R. Hunt, J. R. Bridgeford and Jacob A. Steinau.

Ky., Mt. Sterling.—Advocate Publishing
Co. Incorporated with \$6000 capital stock by
E. W. Senff, G. B. Senff, T. D. Arthur and
others; acquired Mt. Sterling Advocate.

Ky., Murray - Publishing. - Meloan Bros. Publishing Co., John M. Meloan, editor, will publish weekly newspaper to be known as Free Press; will install linotype machine, etc.

Md.. Baltimore—Automobiles.—Maupin Motor Co., Mt. Royal and North Aves. (recently reported incorporated with \$8000 capital stock), is established in temporary quarters; contemplates erection of garage later; J. S. Ditch, president and treasurer; C. I. Boswell, vice-president; F. B. Maupin, secretary and manager.

Md., Frederick — Abattoir.—Frederick City Abattoir Co. organized with \$50,000 capital stock by T. B. Hayward, W. O. Kolb, W. O. Glaze and others; will establish abattoir and packing plant.

Miss., Gulfport.—American Steam Heating Co. will apply for franchise to establish steam heating system; meter system; heat furnished from exhaust pipes of power plant.

Mo., Kansas City-Publishing.—Roach-Fowler Publishing Co. Incorporated with \$2000 capital stock by Arno L. Roach, Lizzle M. Roach, Charles C. Fowler and Maybelle C.

Mo., Marshall—Hardware and Furniture.— Huff-Proctor Hardware & Furniture Co. incorporated with \$12,000 capital stock by C. G. Proctor, Minnie Proctor, John S. M. Huff and others.

Mo., St. Joseph—Construction.—Dubois Reinforced Concrete Construction Co. incorporated with \$2000 capital stock by Charles R. Dubois, Eugene Silberman and Elliot Spalding.

Mo., St. Louis—Laundry.—West End Laundry Co. incorporated with \$50,000 capital stock by G. M. Johnson, Frank L. Smith and Robert Dunn.

Mo., St. Louis—Laundry.—West End Laundry Co. incorporated with \$50,000 capital stock by Gabriel M. Johnston, Robert P. lunn, Michael T. Dunn and others.

Okla., Newkirk—Supplies.—Newkirk Farmers' Supply Co. incorporated with \$3000 capital stock by J. W. Brian, H. E. Bode and Guy Mitchell.

Okla., Oklahoma City—Garage and Flat.— William Ribbe will erect garage and apartment building; two stories; 50x100 feet; cost \$7000.

Okla., Sulphur — Hardware. — Frier Hardware Co. incorporated with \$20,000 capital stock by G. C. Frier, L. H. Frier and M. D. Frier.

Okla., Tulsa-Garage.-F. G. Shaw and associates will erect garage for New State Auto Co.: 50x140 feet.

Okla., Tulsa-Incinerator.—City will probably soon award contract for construction of incinerating plant. Address The Mayor.

Okla., Tulsa — Garage. — Hohman-Snyder Motor Car Sales Co., L. E. Hohman, president, has plans by J. V. Starr, Tulsa, for garage and salesroom recently noted; fireproof construction; brick; 70x75 feet; cost

proof construction; brick; 70x75 feet; cost \$10,000.

Okla., Tulsa: Fuel.—Southwestern Fuel Co. incorporated with \$15,000 capital stock; J. B. Porter, Tulsa; B. K. Long, Coffeyville, Kans.; H. L. Russell, Duncan, Okla.

S. C., Columbia—Boat Line.—Columbia & Atlantic Railway & Steamship Co. organized with \$100,000 capital stock by T. C. Williams, E. S. Williams, John A. Woodward and G. W. Haltiwanger; will establish

boat line from Charleston to Georgetown, S. C.; construct three-mile railway line from some point on Congaree to Main St. in Columbia; erect warehouse.

Tenn., Chattanooga — Laundry. — Crown Laundry awarded contract to T. A. Chambers, 813 Henderson Ave., Chattanooga, for erection of proposed building; first floor to contain laundry; second floor, apartments; two stories and basement; brick; composition roof; concrete floor to basement; hotwater heat; gas and electric lighting; plans by Huntington & Sears, James Bldg., Chattanooga.

Tenn., Memphis—Automobiles and Rubber Goods.—City Auto & Rubber Co. incorporated with \$10,000 capital stock by A. R. Woolen, J. H. DuBose, James T. Dolan and others.

Tex., Beaumont — Garage. — W. A. Decker will erect garage, to be occupied by Beaumont Motor Co.

Tex., El Paso—Publishing.—El Paso Timer Co. Incorporated with \$100,000 capital stock by F. J. Feldman, C. G. Bayne and Thomas O'Keefe.

Tex., Taylor—Coffee Roasting.—Nalley Grocery Co. of Taylor and Georgetown, Tex. will erect grocery store building and equip with coffee-roasting machinery.

Va., Norfolk—Automobiles.—Seaboard Auto & Storage Co., R. L. Reams, president, recently reported incorporated with \$20,000 capital stock, will conduct repair shop; eight cars daily capacity.

Va., Norfolk - Garage. - Mrs. A. R. Laurence will erect garage; brick; cost \$4000.

Va., Norfolk—Navigation.—People's Navigation Co. Incorporated with \$15,000 capital stock; W. S. Fentress, president; J. H. McHorney, general manager.

W. Va., Charleston-Garage.-Graves Hubbard will erect garage; 200x45 feet.

W. Va., Charleston — Laundry. — Empire Laundry Co. incorporated with \$20,000 capital stock by T. H. Williams, A. R. Timberlake, J. H. Stephenson and others.

## MISCELLANEOUS MANUFACTUR-ING PLANTS

Ala., Birmingham—Pumps.—F. I. Courtland, H. C. Ayerton, M. H. Lisle and W. B. Arrington, all of Chicago, III., are considering Birmingham as location for proposed pump plant.

Ala., Birmingham—Neckwear.—J. B. Harrison of Philadelphia, Pa., represents manufacturers of neckwear who are reported as contemplating establishment of plant; may invest \$100,000.

Ark., Fort Smith — Distillery. — W. II Hughes & Co. leased building and will remodel for distillery; cost \$10,000.

D. C., Washington-Restone.—Restone Company Incorporated with \$100,600 capital stock;
A. Jackson, president; Y. Burgess, vice-president; H. E. Deckman, secretary-treasurer,
93 I St. N. W.

Fia., Jacksonville — Chemicals. — Diamond Chemical Co. incorporated by W. E. Tyer, Telfair Knight and R. D. Knight, Jr.

Fla., Miami-Germ Exterminator.—American Germ Exterminator Co. Incorporated with \$5000 capital stock by J. 8. Thrasher, F. A. Jones and John Grambling.

Fla., Tampa-Cigars.-Garcia Bros. & Co. will erect additional buildings.

Ga., Atlanta—Regalia.—Floding Regalia Coincorporated with \$5000 capital stock by W. R. E. Hard, Edward Floding and J. Harvey

Ga., Atlanta-Whips.—Dixle Stock Powder & Chemical Co., G. G. Crouch, president, contemplates manufacture of carriage whips, etc. (See "Machinery Wanted.")

Ga., Augusta-Automobiles. — Great Southern Automobile Co. incorporated with \$100,000 capital stock by L. J. Williams, F. W. Edwardy and Wallace B. Pierce.

Ga., Augusta-Shirts.-A. A. Gane, Keene, N. H., contemplates establishment of shirt factors.

I.a., New Orleans-Rendering Plant.-John Alpezza will establish rendering plant.

La., Tallien—Sugar Mill.—Himalaya Planting & Manufacturing Co., J. G. Martel, president, will remodel and make additional improvements to plant; cost \$75,000; L. A. Moreisl, consulting engineer, Tallien; J. Edward Martel, chief engineer, Tallien; material purchased; construction by company's forces; will install machinery; daily capacity, 1000 tons sugar-cane. (See "Machinery Wanted.")

Md., Baltimore — Brooms, Whisks, etc. — Southwestern Broom Manufacturing Co., Evansville, Ind., will establish branch plant; erect factory building on block between 2d and 3d and Toone Sts. Md., Baltimore—Artificial Flowers.—Snellenberg Company, 101-03 Hanover St., awarded contract to McLaughlin Bros., 915-17 Bolton St., Baltimore, for erection of artificial-flower plant at Alsquith and Oliver Sts.; three stories: brick: cost \$25,000.

Md., Lonaconing—Creamery.—C. D. Jones and W. F. Bancroft are promoting establishment of creamery; will erect building; one story; 28x48 feet, with annex 12x28 feet; concrete floor.

Miss., Jackson—Tents, etc.—Camp Furniture & Manufacturing Co., G. B. Downing, president, 315 South Roach St., purchased equipment for proposed plant; will manufacture cots, tents, awnings, etc. (See "Woodworking Plants.")

Miss., Natchez—Pearl Buttons.—G. D. Willlams, Davenport, Iowa, is reported as interested in establishment of \$30,000 pearl-button factory.

Mo., Kansas City-Mantles.—Spark Mantle Co. Incorporated with \$25,000 capital stock by Charles C. Haslett, C. F. Spark and Robert B. Cannon.

Mo., Kansas City.—Hayes Manufacturing Co. incorporated with \$25,000 capital stock by John H. Young, Frank Dye and Harry C. Page.

Mo., Kansas City.-H. R. Ennis is interested in establishment of factory.

Mo., Kansas City-Washers.—Adams Washer Co. (recently reported incorporated with \$20,000 capital stock) will open bids in June or July for erection of building; mill and threproof construction; cost \$15,000; sheetmetal and woodworking machinery to be installed; cost \$20,000; will manufacture washing machines; M. O. Adams, president treasurer; F. T. Travers, vice-president-secretary. (See "Machinery Wanted.")

Mo., Kirksville—Gas Plant.—Kirksville Gas Co. will install new gas equipment and gas holder, to double capacity of plant.

Mo., St. Louis — Renovators. — Invincible Renovator Co. incorporated with \$15,000 capital stock by Edward J. Baraba, George T. Moore and Bruce Barnett.

Okla., Chickasha—Cement Burial Vaults.— Chickasha Cement Burial Vault Co. incorporated with \$10,000 capital stock by J. A. Rose, F. M. Frey and E. S. Dougan.

Okla., Enid-Bakery.-W. S. Mitchell will erect bakery.

Okla., Oklahoma City-Stock Food.-Southvestern Stock Food Co. incorporated with \$100,000 capital stock by W. H. Furse, T. Woods and E. V. Robnett.

Okla., Oklahoma City—Window Brackets.— National Window Bracket Co. Incorporated with \$10,000 capital stock by Lewis Longbotham, E. Longbotham and Owen V. Hughes.

Oklahoma City—Granite Works.— Oklahoma Granite & Monument Co. increased capital stock from 25,000 to \$100,000.

S. C., Greenville—Gas Machine, etc.—Greenville Light & Heating Co. organized; C. M. Bauskett, president; J. P. Carlisle, vice president; B. S. H. Harris, secretary; has purchased and is installing machinery to manufacture Speer automatic gas machine in 10 to 500-light machines; offices and factory on Washington St.

S. C., Greenville — Cotton Underwear. — Nuckasee Manufacturing Co. Incorporated with \$50,000 capital stock by F. W. Symmes, U. C. Poe, Marion Brawley and David Jennings. (Recently mentioned.)

Tenn., Johnson City - Extract Plant, --United States Leather Co. of New York has not begun construction of proposed extract plant; plans undecided. (Recently incorrectly reported.)

Tex., Dallas-Trucks.-A. G. Stopple, 135 Ross Ave., will establish plant to manufacture heavy floats or freight transfer trucks. (See "Machinery Wanted.")

(See "Machinery Wanted.")
Tex., Dallas—Oil Refinery.—Climax Refining Co. incorporated with \$100,000 capital stock by J. A. Ballard, A. W. Clem and C. B. Cooper; acquires Climax Oil Co. of Waco, Tex.; San Jacioto Refinery and Richardson-Gay Company of Corsicana, Tex., and Clem-Ballard Oil Co. of Dallas; will operate refinery at Corsicana, with branches at Wichita Falls, Waco, Denison and other Texas cities; offices at Dallas.

Tex. Pilot Point—Garments.—Commercial

Tex., Pilot Point—Garments.—Commercial Club is interested in establishment of garment factory by Oklahoma capitalists with 30,000 capital stock; plan calls for erection of one-story brick building, 50x100 feet.

Tex., Rockwall — Creamery. — Rockwall Creamery Co. incorporated with \$4850 capital stock by W. D. Austin, H. W. Chandler, T. D. Orr and others.

Tex., San Antonio-Insect Traps.-Univer-

porated (under Corpus Christi) with \$100,000 capital stock, will manufacture traps about four feet high, with lamp attraction, for destruction of boil weevil and other cotton-preying insects; daily capacity, 500 traps; B. E. Adams, president; W. N. Purcell, vice president; P. C. Tumilinson, 213 East Houston St. secretary-treasurer; main office, Corpus Christi; company contemplates having traps made by contract until factory is completed. (See "Machinery Wanted.")

Tex., Taylor-Creamery.-Taylor Creamery Co. organized with \$5000 capital stock; James A. Thompson, president; Hugh Williams, vice-president and general manager; Fred L. Welch, treasurer; Robert A. Williams, secretary.

Tex., Windhorst -- Creamery. -- Windhorst Creamery Association incorporated with \$8500 capital stock by L. Kertz, Jacob Martini and Henry Osterman.

Va., Buena Vista—Stationery.—Buena Vista Stationery Manufacturing Co. will erect building: 125x40 feet.

Va., Lynchburg — Cotton Gloves.— L. P. Schlemb, Ohio City, O., will, it is reported, establish cotton-glove factory.

Va., Norfolk.—Princess Anne Manufacturing Co. Incorporated with \$10,000 capital stock; R. W. Waddy, president; J. L. Mills,

secretary-treasurer,
Va., Petersburg — Distillery, — Pocahontas
Distilling Co. incorporated with \$20,000 capi
tal stock; A. E. Shore, president; P. C.
Shore, vice-president, both of Rocky Mount,
N. C.; I. C. Shore, secretary-treasurer, of

Va., Richmond-Wearing Apparel.—Baylor-Yarborough Company incorporated with \$15, 000 capital stock; J. W. Yarborough, president; L. C. Young, vice-president; G. B. Baylor, secretary-treasurer.

Baytor, secretary-treasurer.
Va., Richmond - Medicine, - Virginia Remedy Co. Incorporated with \$50,000 capital stock; J. H. Leion, president; Morris Davidson, vice-president; P. O. Kipper, secretary-treasurer.

W. Va., Sutton-Extracts.-Tanners & Dyers' Extract Co., Charleston, W. Va., contemplate establishment of additional plant.

W. Va., Petersburg — Bottling.—C. Earl Vench and John A. Parks will establish bottling plant.

W. Va., Moundsville-Enamelware.-United States Stamping Co. will erect two additional buildings; warehouse and shipping department, 160x120 feet, three stories; stamping department, two stories, 200x100 feet; cost \$60,000.

## RAILWAY SHOPS, TERMINALS, ROUNDHOUSES, ETC.

Fla., Jacksonville.—St. Johns River Terminal Co., J. B. Munson, president, Macon, Ga., is arranging to build proposed repair shops; other improvements (purchase of shop property, construction of tracks, paving around freight terminals, reconstruction of riverfront track and construction of several industrial tracks, etc.) partly completed; total appropriation for improvements this year is \$250,000, and not \$500,000, as some reports have stated. (Recently reported.)

Ky., Louisville.—Baltimore & Ohio Southwestern Raifrond, C. C. F. Bent, general manager, Cincinnati, O., recently incorrectly reported to make terminal improvements.

La., Baton Rouge.—Yazoo & Missbsdapi Valley Railroad, A. S. Baldwin, chief engineer, Chicago, III.; Baton Rouge, Hammond & Eastern Railroad, and Southern Pacific Railway, W. M. Holbs, general superintendent, New Orleans, La., will, it is reported, erect shops in North Baton Rouge for repair of rolling stock.

Okla., Oklahoma City.—Denver, Kingfisher & Gulf Railroad, J. M. McDonald, president, Kansas City, Mo., will construct shops on tract of 480 acres near Oklahoma City; cost about \$100,000.

Tenn., Livingston. — Livingston Terminal Co. will construct terminal facilities at cost of \$22,060; has begun erection of \$1800 frame station.

Tex., Palacios.—Palacios, San Antonio & Pecos Valley Raliway, H. W. Dean, manager, will, it is reported, construct roundhouse, shops and terminal buildings.

## ROAD AND STREET IMPROVE-MENTS

Ala., Attalia.—City awarded contract to Morris & Angel, Sheffield, Ala., at \$855,50 for construction of 5100 square yards artificial-stone sidewalk and 100 yards driveway; also 7800 feet combined curb and gutter; Hill & Campbell, engineers, Gadsden, Ala. (Recently noted.) Ark., Little Rock.—City will grade and lay concrete sidewalks and crossings on West 11th and Rice Sts.; bids opened May 4; Guy W., Caron, secretary Board of Commissioners of Improvement District 159, Federal Bidg.

Ark., Little Rock.—City will pave West 6th and Victory Sis. with asphalt; bids to be opened May 14; E. A. Kingsley, City Engineer. (See "Machinery Wanted.")

Fla., Key West.—Board of Public Works has engaged Hazlehurst & Anderson, Atlanta, Ga., to make surveys and prepare plans and specifications for street paving. (Previously mentioned.)

Ga., Macon.—City will pave Cotton Ave. and Forsyth St., from City Hall to College St., with wooden blocks; Forsyth St., from College to Monroe St., with asphalt; College St., from Georgia Ave. to Forsyth St., with bitulithic, vitrified brick in center of street-car tracks; Georgia Ave., from Spring to College St., with bitulithic; 5th St., from Cox & Chappell's to bridge, with granite blocks; Main St., from bridge to Hydroia St., with vitrified brick; Lasley & Co., Chattanooga, Tenn., have contract for brick, granite and wood blocks; Atlantic Bitulithic Co., Richmond, Va., for bitulithic, and Barber Asphalt Co., Louisville, Ky., for asphalt. (Recently mentioned.)

Ky., Lexington.—City contemplates voting in November on issuance of \$300,000 of bonds for street improvements. Address the Mayor.

Ky., Maysville.—City awarded contracts for laying 48,000 feet of cement sidewalks as follows: Brawley Bros., Portsmouth, O., at 12½ cents per square foot for sidewalks on Front, Market, 3d, Limestone and Wall Sts.; Hord & Evans of Maysville, at 13½ cents per square foot on 2d and Sutton Sts.; John Hays of Maysville, at 12 cents per square foot on 4th St.

Md., Betterton.—City voted bonds for construction of concrete sidewalks. Address The Mayor.

Md., Federalsburg.—Caroline county will grade and macadamize .51 mile of road on Bridge St.; bids to be opened May 10; J. L. Dukes, clerk to County Commissioners, Denton, Md. (See "Machinery Wanted.")

I.a., Leesville.—Ward 1 of Vernon parish voted tax for road and bridge construction Address Police Jury.

Miss., Agricultural College.— Executive committee will open bids May 17 for construction of macadam road from Starkville to Agricultural College; distance 1½ miles; D. W. Brown, professor civil engineering of A. and M. College, is engineer. (See "Machinery Wanted.")

N. C., Greensboro.—C. G. Wright, C. C. Mc-Lean, R. C. Bernau, Marion Cobb and others are promoting construction of macadam road from Raleigh to Greensboro.

N. C., Laurinburg.—City will lay about 2500 square yards concrete sidewalk paving, including curb and gutters; bids will be opened May 23; M. L. John, Mayor. (See "Machinery Wanted.")

N. C., Washington.—City will pave East and West Main and 2d Sts., Market and Water Sts. and Union Al., about 6130 linear feet; bids to be opened May 12; D. B. Packard, City Engineer. (See "Machinery Wanted.")

Okla., Oklahoma City.—City will open bids May 16 for paving Linwood and Classen boulevards, 3ist, 28th, 29th and other streets, amounting to about eight miles of street paving; Bob Parman, City Clerk. (Recently mentioned. See "Machinery Wanted.")

S. C., Spartanburg.—Spartanburg county will construct road from Spartanburg to North Carolina line, distance of 36 miles; S. H. Culbreath, County Commissioner.

Tenn., Clarksville.—W. J. Manning & Son of Clarksville have contract to lay 20,000 square feet of concrete sidewalks in "Crestwood," suburb of Clarksville.

Tenn., Lonsdale, R. Station, Knoxville.— City has rejected award of contract to J. J. Connor & Sons of Knoxville for street paving and will soon reaward contract. (Recently mentioned.)

Tenn., Memphis.—City will pave Rayburn boulevard with bitulithic. Address The Mayor.

Tenn., Memphis.—City opened bids April 26 for laying 111,731 square yards tar macadam pavement, 380 square yards gravel pavement and 271,610 square feet of concrete gutters; excavation, 131,775 cubic yards; Ennis M. Douglas, City Clerk.

Tex., Dallas.—City will open bids May 9 for paving Elm St. from Ervay to Market St.; J. B. Winslett, City Secretary. (Recently mentioned. (See "Machinery Wanted.")

Tex., Dallas.-City will open bids May 9 for paying Commerce St.; J. B. Winslett, City Secretary. (See "Machinery Wanted.") Tex., El Paso.—City opened bids May 5 for paving Myrtle Ave. and West Overland St.; Joseph U. Sweeney, Mayor. (Recently mentioned.)

Tex., Galveston.—Galveston county will improve roads along G., H. & H. Raliroad and along Santa Fe Raliroad; bids to be opened May 16; John M. Murch, County Auditor. (See "Machinery Wanted.")

Tex., Houston.—Harris County Commissioners invite bids until May 13 for paving four miles of Lynchburg and Crosby Rds.; also bids for paving remainder of Seabrook Rd.; John B. Ashe, County Auditor. (Recently mentioned. See "Machinery, etc., Wanted.")

Tex., Maypearl.—Road district, comprising Maypearl and vicinity, will vote June 4 on issuance of \$25,000 of bonds for road construction. Address Ellis County Commis sioners, Waxahachie, Tex.

Tex., Palestine.—City will not at present construct paving. (Recently incorrectly noted.)

Tex., Port Arthur.—City contemplates construction of concrete sidewalks. Address The Mayor.

Tex., San Marcos.—Precinct No. 1 of Hays county will vote June 4 on Issuance of \$20,000 of bonds for road construction. Address County Commissioners.

Tex., Stamford.—City contemplates bond election for road and street improvements. Address The Mayor.

Tex., Waxahachie.—Justice Precinct No. 3 of Ellis county will vote June 4 on issuance of \$300,000 of bonds for road improvements. Address County Commissioners.

Tex., Waco.—City will open bids May 13 for paving Austin Ave. and two alleys; H. B Mistrot, Mayor. (Recently mentioned. See "Machinery Wanted.")

Tex., Wichita Falls.—City expects to award contract amounting to \$40,000 in connection with street improvements. Address The Mayor.

Va., Luray. — New Market & Sperryville Turnpike Co. (Clifford G. Bailey and others) contemplates improving road; will construct one mile of macadamized road as objectlesson.

Va., Lynchburg.—Bids will be opened May 10 for construction of 1.6 miles of macadam road on extension of Campbell Ave, toward Campbell, Va.; P. St. J. Wilson, State Highway Commissioner, Richmond, Va. (See "Machinery Wanted.")

Va., Portsmouth.—City will expend \$125,990 this year for street improvements; Bascom Sykes, City Engineer, (Previously mentioned.)

Va., Portsmouth.—Common Council authorized issuance of \$125,000 of paving and street-improvement bonds and \$75,000 of bonds for improvements in Sixth and Seventh wards. Address The Mayor.

Va., Richmond.—City awarded contract to I. J. Smith & Co., Richmond, to pave four blocks surrounding John Marshall high-school building with asphalt block manufactured by Washington Asphalt Block & Tile Co., Capitol and R Sts., Washington, D. C.

Va., Spotsylvania.—Board of Public Roads of Spotsylvania County will open bids May 18 for construction of 14 miles of gravel road in Chancellor District, 19 miles in Courtland District and three-quarters of mile of macadam road in Courtland District; P. St. J. Wilson, State Highway Commissioner, Richmond, Va. (See "Machinery Wanted.")

wond, Va. (See "Machinery Wanted.")
Va., Spottsylvania.—Bids will be opened
May 18 for construction of 20 miles of road
in Spottsylvania county; P. St. J. Wilson,
State Highway Commissioner, Richmond,
Va.; M. W. Thorburn, George W. Perry and
others, Board of Spottsylvania County Road
Commissioners.

Va., Washington. — Wakefield district of Rappahannock county voted issuance of \$15,000 of bonds for construction of macadamized road from Flint Hill to Warren county line, distance about seven miles. Address County Commissioners.

## SEWER CONSTRUCTION

Ark., Searcy.—City will open bids about May 15 for construction of sewer system; estimated cost, \$30,000; W. S. Shields, engineer, Chicago, Ill. (Recently mentioned.)

Ark., Stuttgart.—City awarded contract at \$17,130.50 to Kress Construction Co., Okinhoma City, Okia., to construct sewer system; system will consist of 1400 feet of 15-inch, 1546 feet of 12-inch, 4945 feet of 10-inch, 19,656 feet of 8-inch, 4360 feet of 6-inch tile pipe sewer, with 118 manholes and 10 flush tanks; also sewage purification works equipped with tank and electric ejectors. (Recently mentioned.)

Fla., Milton.—City voted \$10,000 bond issue for construction of sewer system. Address The Mayor.

Ga., Sylvania.—City voted issuance of \$40, 000 of bonds for construction of sewer system, electric-light plant and water-works Address The Mayor.

Ky., Louisville.—Sewerage Commissioner: awarded contract to C. T. McCracken & Co. Columbus, O., at \$102,643 for construction of Brook-street sewer, contract No. 62. (Recently mentioned.)

La., New Orleans.—W. J. Hardee, City Engineer, prepared plans and specifications for construction of subsurface drainage system in Morgan Boulevard.

Miss., North Greenwood, P. O. Greenwood. City will construct sewer system; bids invited. Address The Mayor.

Mo., St. Louis.—Board of Public Improvements, Maxime Reber, president, Room 50)
New City Hall, opens blds May 17, 24 and 31
for various sewers of reinforced concrete,
brick, etc.; blank forms furnished; plans
and specifications on file or copies furnished.
(See "Machinery Wanted.")

N. C., Franklin.—City voted issuance of \$20,000 water and sewer bonds. Address The Mayor.

Okla., Lawton.—City voted issuance of \$40, 000 of bonds for construction of storm sewer along or near Squaw Creek; Z. M. Seifres, City Engineer. (Recently mentioned.)

Okla., McAlester.—City opened bids May 2 for construction of four district sewers; total length, 9245 feet, and one public sewer 825 feet, all to be eight-inch vitrified tile except 440 feet of eight-inch cast-iron plpe; J. M. Gannaway, City Clerk.

Okla., Oklahoma City.—City will open bids May 9 for construction of various sewers; Bob Parman, City Clerk. (See "Machinery Wanted")

Okla., Woodward.—City awarded contract to American Light & Water Co., Kansas City, Mo., to construct 13 miles of sanitary sew ers; cost \$65,590.

Tex., Port Lavaca. — Andrew and Alfred Nilson of Nilson Bros., Chicago, Ill., will make survey of Port Lavaca Health Ranch and submit proposition for construction of sewer system.

## TELEPHONE SYSTEMS

Ark., Delight.—Delight Telephone Co. organized with W. H. Bowers president, R. W. Stell vice-president, G. M. Powers secretary.

Ark., Scranton.—Scranton Telephone Co. R. B. Chitwood, president, recently reported incorporated with \$4000 capital stock, will construct 35 miles of line connecting Clarksville, Scranton, Prairie View, Dublin, Brown and Paris; will erect \$1200 exchange.

and Paris; will erect size exchange.

Md., Baltimore.—American Telephone & Telegraph Co. of New York (Chesapeake & Potomac Telephone Co., Baltimore) planning construction of underground conduits from Philadelphia to Baltimore to Washington; distance about 140 miles.

La., Pioneer.—Koerner & Balley, Oak Grove, La., are interested in establishment of telephone system; construction begun; contemplates extending line to Delhi, La., later, there to connect with long distance.

Mo., Kansas City.—Missouri Kansas Telephone Co. will increase capital stock from \$5,000,000 to \$29,000,000.

Mo., St. Louis.—Abliene Independent Telephone & Telegraph Co. incorporated with \$300,000 capital stock by Stanley A. Jones of Chicago, Ill.; Xenophon Wilfley, William T. Hardin and others of St. Louis.

Okia., Hobart. — Rainy Mountain Rural Telephone Co. incorporated by W. S. Fleming and others.

Tenn., Harriman.—Tri-County Telephone & Telegraph Co. incorporated with \$10,000 capital stock; will construct and operate telephone lines from Olive Springs to Roane, Anderson, Knox and adjoining counties.

Tex., Dalhart.—Trans-Canadian Telephone Co. organized by D. O. Hazelton and Allen Spain of Rector, Ark.; has franchise to construct telephone line, exchange and firealarm system; common battery all cable plant; materials purchased.

Tex., El Paso.—Tri-State Telephone & Telegraph Co. (recently noted organized and to expend \$300,000 for improvements) will construct teelphone line to Clint, Tex.; 21 miles long, high-class copper circuit; will also construct toll line into Douglas-Bisbee country.

## TEXTILE MILLS

Ala., Montgomery.—Lace.—American Lace Manufacturing Co., Elyria, O., is reported as contemplating establishment of branch plant. Ga., Columbus—Oilcloth.—Meritas Mills (lately reported incorporated with \$300,60) capital stock) will be organized by Alvin Hunsicker, general manager of Standard Oilcloth Co., 320 Brondway, New York, and associates; plans for mill not fully completed; will manufacture cloth bases for oilcloth; ship to Standard plant for finishing.

Ga., Atlanta—Cotton Bags.—Fulton Bag & Cotton Mills will build addition to bag department; 60x100 feet; brick; mill construction; cost \$100,000.

N. C., Bessemer City—Cotton Cloth.—Osage Manufacturing Co. will, it is reported, expend \$75,000 for additional carding machinery, looms, electrical motors, etc.

N. C., Winston-Salem—Cotton Yarns.—P. H. Hanes Knitting Co. engaged O. A. Robbins of Charlotte, N. C., as engineer for construction and equipment of cotton-yarn mill; one-story building about 500 feet long with monitor roof; 10,000 spindles. (Recently reported.

Tenn., Morristown-Hosiery.-C. H. Bacon manager of Loudon Hosiery Mills, Loudon Tenn., and J. M. Givens of New York plan organization of \$50,000 stock company to build hosiery mill,

## WATER-WORKS

Ala., Phenix City, P. O. Columbus, Ga.— City will improve pumping system of waterworks; plan to construct electric line from Phenix City to pumping station, using alternating current, and install pump and dynamo; Columbus Railroad Co. will pay for electric line and city for pumps and dynamo.

Ark., Searcy.—City will open bids about May 15 for construction of water-works; 60,000-gallon reservoir and tank; cost about \$50,000; W. S. Shields, engineer, Chicago, III. (Recently mentioned.)

Ark., Waldron.--City is having plans pre pared by E. W. Gantt of Sequoyah Engineer ing Co., Fort Smith, Ark., for water-works

Ark., Hartford.—City Council appointed committee consisting of A. B. Colvin, J. E. Boring and W. H. Raine to confer with company which proposes to construct waterworks.

Fla., Jacksonville.—City will construct 3,000,000-gallon covered reinforced concrete reservoir; bids to be opened June 6; W. M. Bostwick, Jr., chairman bond trustees. (See "Machinery Wanted.")

Fla., Milton.—City voted \$25,000 bond issue for water-works. Address The Mayor.

Ga., Cairo.—City voted May 2 on issuance of \$9000 of bonds for extension of waterworks. Address The Mayor.

Ga., Sylvania.—City voted issuance of \$40.000 of bonds for construction of water-works, electric-light plant and sewer system. Address The Mayor.

Md., Baltimore.—City awarded contract at \$14,960 to Charles L. Stockhausen, National Marine Bank Bidg., Baltimore, to erect brick and concrete gatehouse at southeast section of new high-service reservoir, south of Liberty road. (Recently mentioned.)

Md. Baltimore.—Neel Construction Co., U.

Md., Baltimore.—Noel Construction Co., C.
S. Fidelity & Guaranty Co. Bldg., Calvert
and German Sts., Baltimore, is lowest biddet
at \$115,000 for erection of pumping station
of Fire Department pipe-line system on
South, near Pratt St.; Edward D. Preston,
Building Inspector. (Recently mentioned.)

Miss., Hazelhurst.—City will expend \$2000 in repairing water-works system; E. M. Cook, Mayor.

Miss., North Greenwood, P. O. Greenwood. City will construct water-works; bids invited. Address The Mayor.

Mo., Holden.—City will repair concrete and earth dam for water-works system; bids opened May 2; W. G. Thompson, Mayor.

N. C., Asheville.—City will received sealed proposals until May 13 for waterproofing 5,000,000-gallon concrete reservoir. (See "Machinery Wanted.")

N. C., Franklin.—City voted Issuance o \$29,000 sewer and water bonds. Address The Mayor.

N. C., Murphy. — City voted issuance of \$25,000 additional water-works bonds. Address The Mayor.

Okla., El Reno.—City Is considering purchase of El Reno Water Co.'s plant at \$120.000; if purchased, \$130,000 would probably 50 expended on extension and service; F. T. Stackpole, City Clerk. (Bond issue of \$250.000 recently noted voted.)

Okla., Francis.—City is negotiating with W. I., Bell, representing Federal Utility Corporation, Kansas City, Mo., for construction of water-works, etc. (See "Ice and Cold-Storage Plants.")

Okla., Lawton.—City voted issuance of \$200,000 of bonds to enlarge water reservoir, erect dam across Medicine Creek and make

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necessary connections with pipe line, etc.; also \$40,000 of bonds for construction of water-works extensions within city limits; Z. M. Scifres, City Engineer. (Recently men-

oned.) Okla., Haileyville.—City Council is con ering proposition to lay system of water mains and secure water from plant at Harts-horne, now under construction by O'Nell Engineering Co., Dallas, Tex.

Tenn., Nashville.-Board of Public Works will open bids May 10 for laying 24,435 feet of piping, including 19,940 feet of 6-inch, 725 feet of 8-inch and 3770 feet of 12-inch pipe; greatpart of work is to be in West Nashville, with 7240 feet of 6-inch pipe in West End estimated cost, \$30,000; certified check for \$500 to accompany bids.

Tex., San Antonio.—San Antonio Water Supply Co., Henry Semple Ames, president, St. Louis, Mo., contemplates improvements to water-works.

Va., Graham.—Graham Water & Electric Co. (recently noted) has not completed or-ganization; filed charter for incorporation with \$25,000 capital stock; details not dewith \$25,000 capital stock; details not decided, but will proceed with previously-noted plans for furnishing city with water and electric lighting; Jas. F. Dudley to be president; Wm. Mitchell, vice-president; R. B. Williamson, secretary; C. W. Keister, treas-

W. Va., Fairmont.-City will vote May 21 on issuance of \$75,000 of bonds for improve-ment of water-works and construction of bridge; A. G. Martin, Mayor.

W. Va., Keyser.—City will vote May 10 o issuance of \$40,000 of bonds for water-work improvement. Address The Mayor. (Bon issue of \$20,000 recently reported defeated.)

#### WOODWORKING PLANTS

Ala., Attalla-Sash and Doors.-Mr. Haye will establish sash and door factory to cos \$12,500.

Ark., Harrisburg-Handle.-J. Holland is arranging to establish plant for manufac-turing hickory handles in rough state.

Ga., Cedartown — Heading. — Cedartown Manufacturing Co. is being organized with \$15,000 capital stock by H. N. Van Devander and R. B. Baker to establish heading plant.

La., Mansfield-Boxes and Crates.-Logar umber Co., J. L. Logan, president, will ablish box and crate factory in connec with lumber plant recently mentioned (un 'Lumber-Manufacturing Plants"); is building mill of 100,000 feet capacity.

La., New Orleans—Sash, etc.—Claiborne Ave. Sash Factory Co., Ltd., increased capital stock from \$5100 to \$10,000.

Miss., Jackson-Cots, etc.-Camp Furniture Manufacturing Co., 315 South Roach St. (recently reported incorporated with \$25,000 capital stock), purchased light woodworking machinery operated by electric motor; will manufacture cots, tents, awnings, etc.; GB. Downing, president; N. J. Milstead, vice president; J. Y. Downing, secretary-treas president; J. Y. Downing, secretary-treas urer; J. N. Young, manager.

Mo., Kansas City-Vehicles.—Kansas City Vehicle Co. will erect building; concrete and mill construction; cost \$60,000.

Mo., Kansas City-Sash and Doors.-West-ern Sash & Door Co., Frederick Huttig, presi-dent, will erect factory building to replace present plant.

N. C., Warrenton — Sash, Doors, etc. — Prigden Manufacturing Co. organized with \$50,000 capital stock by W. H. Prigden, R. B. Boyd, M. P. Burwell and others.

Okla., El Reno—Furniture.—El Reno Furniture Co. incorporated with \$25,000 capital stock by C. I., Bryson of El Reno, J. M. Polsey and M. C. Brown, both of Columbus, O.

Tenn.. Gleason - Buggies. - Montgomery Hart & Nichols will establish buggy factory

Monterey, Tenn., will establish stave plant; J. A. Walker, Monterey, Tenn., will be in charge. Tenn., Jellico.-Welch Stave & Heading Co.,

Morristown-Chairs-J. P. Fort Tenn.. Tenn., Morristown—Chairs.—J. P. Fort Lumber Co. will establish chair factory; will erect building 40x150 feet; two stories; en-gine and boiler room of brick, remainder of building frame covered with tin sheeting and June 1; will install machinery; cost \$5000; daily capacity, 50 chairs. (See "Machinery Wanted.")

Va., Richmond — Churns, etc. — Cyclone Churn Co, incorporated with \$25,000 capital stock; B. I. Dunlap, president; L. C. Gar-rett, vice-president; R. W. Gary, secretary-

## BURNED

Ala., Birmingham. — Residences of B. S. Latham, W. A. Bowers, L. O. Larson, George Harter and J. C. Sheppard; total loss, \$10,000.

Ala., Opp.-Central Hotel: loss \$5000. Ala., Mobile.-Earle Macartney's residence

at \$46 Government St.; loss \$8000.

Ala., Tuscaloosa.-J. S. Free Lumber ill rebuild plant reported burned: loss \$1500 to \$2000.

Ala., Tuscaloosa.-J. S. Free Lumber Co.'s plant; loss \$1500 to \$2000.

Ark., Clarendon.—National Cooperage Co.'s drykiln; loss \$20,000 to \$30,000.

Fia., Jacksonville.—Scotland Mills (lumber), on Black Creek; loss \$25,000.

Ga., Douglas.—Douglas Planing Mill's ciln, office building, etc., owned by G. Seymour; loss \$5000.

Ga., East Point.-W. Tom Callahan's print ing plant; loss \$1000.

Ga., Pineview.-J. J. Dennard's residence and cotton gin. La., Loring.-Bowman-Hicks Lumber Co.'s

laning mill.

La., Melville.—Strangers' Hotel.

La., Lake Charles.—W. M. Wilson, Lake Charles, La., states residence was not de-stroyed by fire; recent report incorrect.

Md., Baltimore.—Baugh & Sons Compr fertilizer plant at foot of Clinton St., ton; loss \$20,000; Calvert and Water Sts.

Miss., Chattawa.-Bartlett Gravel & Sand o.'s gravel plant.

Miss., Morton.-Su Miss., Gulfport .-- Mitchell Sash and Blind

factory at Thirtieth Ave. and 21st St.

Miss., Mississippi City.—St. James' Cath-olic Church; residence owned by Rev. J. E. Chenele, Laurel, Miss.; estimated loss, \$7000. Mo., St. Louis .- Anheuser-Busch Brewing

Association's bottling plant; loss \$250,000.
S. C., Jonesville.—J. N. Littlejohn's resl-

dence: loss \$5000. S. C., Laurens,-Hugh E. Gray's residence

BS \$3000 Tenn., Memphis.-Memphis Stave Manufac

turing Co.'s plant; loss \$7000.

Tex., Acme.-American Cement Co.'s plant ss \$50,000.

Tex., Ben Arnold.-J. S. Rice's store

Tex., Brownwood.—H. H. Hardin & Co.'s lumber yards; Harvey Mayes' residence; total loss \$20,000 to \$25,000.

Tex., Naples.—J. J. Shaddis's sawmill, gin. etc.; loss \$80,000.

Tex., Napier.-R. C. Miller's hardwood mill

Tex., Sherman. — Austin College's dormiory, loss \$7500; Tom Meyer's residence, loss

Tex., Shepherd.-R. C. Miller Lumber Co.'s ardwood mill; loss \$10,000.

Tex., Sweetwater.-Oriental Hotel: loss Va., Winchester - Mutual Skating Rink

ed by Harry F. Byrd and Fred L. G loss \$7000

Va., Winchester.—Glaize & Bros.' planing alli and lumber yard; loss \$50,000.

W. Va., Glendale. — Wheeling (W. Va. Metal & Manufacturing Co.'s furnace and piping departments; loss \$12,000.

W. Va., Union.—A. J. Dixon's roller flour nd feed mill; loss \$4200.

W. Va., Sprague. — New River Collieries to,'s tipple; loss \$15,000.

## DAMAGED BY STORM

Fla., Jacksonville. — Cummer Lumber Phosphate Co.'s phosphate elevator.

## **BUILDING NEWS**

## **BUILDINGS PROPOSED**

## APARTMENT-HOUSES

Ark., Helena.—Utley & Utley, 329½ Cherry St., Helena, invite subcontractors to bid on heating, plumbing and gasfitting, electric wiring, exterior and interior plastering, conwork, etc., composition roofing and painting for three-story frame stucco 90-room apart mill

D. C., Washington.—Joseph Lavesso, 125 9th St. N. W., has plans by Miller & Miller, Evans Bidg., Washington, for apartment-house at 16th and U Sts. N. W.; 75x80 feet, 14 apartments of five rooms and bath each; st \$30,000.

Fla., Jacksonville,-J. S. Arnold will ere ent-house; two stories; frame; four

La., Morgan City.—Mrs. D. K. Goldman will open blds May 15 for erection of build-ing to contain apartment, stores and offices; cost \$6000. (See "Miscellaneous Structures.")

Md., Baltimore.—R. Watts, North Fulton Ave., is having plans prepared by John R. Forsythe, 222 St. Paul St., Baltimore, for apartment-house at Powhatan Ave. and 18th St.; two stories; frame; 32x96 feet; cost \$10,000; hot-water heat; electric lighting; bids opened May 5.

Mo., St. Louis.-Cunard Realty & Building Co., Samuel J. Coultas, president, purchased site 200x147 feet on which to erect apartment ouse to cost about \$50,000.

Mo., St. Louis.-Charles and Mathilda Egerding purchased site on which to erect single apartment-house.

Mo., St. Louis.—II. Roth will erect apart-nent-house; cost \$24,000.

Mo., St. Louis.-J. L. Wyland will er apartment-house; three stories; contain npartment-house; three stories; contain six apartments; cost \$30,000.

Tenn., Knoxville.—H. H. Rice has plans for partment-house to cost \$20,000.

Tex., El Paso,-Dr. J. Shelton Horsley is aving plans prepared for three-story apart having plans prepare ment-house to cost \$45,000.

Tex., San Antonio.—T. W. Campbell, Mrs. Harry Gunther and W. A. Wurzbach have plans by Leo M. J. Dielmann of San Antonio apartment-house and store building: 6x91 feet; five stories; cost \$50,000.

Va., Norfolk.-J. W. Cole will erect brick artment-house to cost \$13,000.

Va., Norfolk.-East & Hobbs will erect brick partment-house.

Va., Portsmouth.-E. L. Lash will erect apartment-house; two stories; four apartnts: cost \$3500.

## ASSOCIATION AND FRATERNAL RUITADINGS

Ark., Pocahontas.—Odd Fellows, Knights of Pythias, Woodmen of the World and Mod-ern Woodmen lodges are planning to erect lodge building

Ark., Walnut Ridge.-Arkansas Jurisdictio of Odd Fellows, Louis Joseph, grand chan-cellor, Little Rock, Ark., will erect \$100,000

Fla., Inverness.—Masonic Lodge contem-plates erection of lodge building; three sto-les; brick or concrete; 64x90 feet.

Md., Oakland.—Garrett Lodge, Knights of Pythias, F. J. Schroeder, secretary, will erect 45x110-foot building; to contain theater and offices; fireproof construction; heating not decided; gas and electric lighting; cost \$6000 : architect not selected. (See "Machin ry Wanted.")

Miss., Monticello.—Lodge No. 162, Woodmen of the World, will erect two-story lodg

Okla., Oklahoma City.-Odd Fellows' Lodg has plans by Layton, Wemyss, Smith & Hawk, Majestic Bidg., Oklahoma City, for lodge building; press brick and stone; five stories; 50x150 feet; gas and electric lights; ost \$90,000.

cost 398,000.

Okla., Shawnee. — Elks' Lodge, F. P. Stearns, chairman building committee, is having plans prepared by J. D. Bramlett, Postoffice Bidg., Shawnee, for lodge building; three stories; press brick; Carthage stone; structural iron; gas and electric lights; 60x 100 feet; cost 338,600. 100 feet : cost \$38,000.

S. C., Spartanburg.—Young Men's Christian Association has plans by M. Luther Whiting Charlotte, N. C., for association building ; 12 tories. (Previously mentioned.)

Tenn., Chattanooga.-Odd Fellows' E. N. Shelton, president, 114 East 7th will erect proposed lodge, office and mer-tile building. (See "Bank and Office Buildings.")

Va., Suffolk.-Suffolk Lodge No. 39, Mas-

## BANK AND OFFICE BUILDINGS

D. C., Washington.—A. F. Fox Company 4th St. and New York Ave. N. W., has plans by Speiden & Speiden, 1403 New York Ave W., Washington, for office building at 1311 It St. N. W.; steel construction; 25x80 feet sed-brick front; marble trimmings; three ies, with basement and sub-basement. ories, with b

D. C. Washington.-Commercial Nation ink, 14th and G Sts. N. W., purchased site adjoining bank building; structure on site will be razed with exception of side walls and will be converted into extension of bank building; addition will be equipped with vauit, elevator and electric plant now in

resent building.
D. C., Washington,—C. C. Calhoun, 1420
ew York Ave., is having plans prepared for

remodeling and enlarging Aston Bidg. at 11th and G Sts. N. W.; structure is to be used for office purposes; estimated cost, \$75,000.

Fla., Monticelio.-Jefferson County State Bank will erect bank building.

Ga., Quitman.—First National Bank Build-ing Co. is having plans prepared for bank and office building; six stories; steel con-struction; electric elevator; top story may be converted into summer roof garden and theater; First National Bank will occupy first floor.

Ga., Elberton.—S. L. Oliver, J. R. and L. D. Mattox and George H. McLanahan will erect office and store building; pressed brick; granite trimmings; steel and plate-glass front : George A. Clayton, Atlanta, Ga., pre-pared plans and submitted bid.

Ga., Ocilla.—Citizens' Bank will erect two r three-story bank building; construction robably not before 1911; estimated cost

Ga., Stillmore.—R. E. Graham will expend \$4000 to erect office and store building re-cently noted; 42x30 feet; plans not complete

Ky., Ashland.-John W. Woods will erect we story office building.

La., Morgan City.—Mrs. D. K. Goldman will open bids May 15 for erection of office building; to contain stores and apartment; cost \$6900. (See "Miscellaneous Structures.")

La., Shreveport.—Hutchinson Bros. invite bids until May 18 for erection of four story office and store building; certified check, \$1000; plans and specifications on application.

Md., Oakland. — Knights of Pythias, wi't erect 45x110-foot building; to contain offices, theater and lodge hall. (See "Association and Fraternal Buildings.")

Miss., Georgetown.—Georgetown Bank, I. Ellis, president, Hazlehurst, Miss., will rect two-story brick bank building.

Miss., Meridian.—M. W. Wagner has plans y Burt Stuart, Meridian, for office and store uilding; cost \$10,000. (See "Miscellaneous Structures.")

N. C., Ansonville.—Bank of Anson will erect

Okla., Oklahoma Clty.—Union Trust Co. has plans by Wemyss, Smith & Hawk, Majes-tic Bidg., Oklahoma City, for bank and office building; four stories and basement; gas and electric lighting.

Okla., 8kintook.—C. F. Rogers has plans for office and store building; 50x100 feet; pressed brick; stone trimmings; two stories.

Okia., Tulsa.—C. L. Holland has plans by Lee Matthews of Tulsa for office building; three stories; 50x70 feet; pressed brick; stone trimmings; cost \$10,000.

S. C., Eastover.-Farmers and Merchants' Bank, Richard Singleton, president, will ex-pend \$5500 to erect 50x50-foot brick bank building recently noted.

Tenn., Chattanooga.—Odd Fellows' Temple 'o., E. N. Shelton, president, 114 East 7th St., will erect proposed office, lodge and mer-cantile building; 8 or 10 stories and base-ment; 50x135 feet; fireproof construction; freight and passenger elevators. cantile buildi

Tenn., Chattanooga.—Hamilton Safe Deposit Co., T. R. Preston, president (previously reported organized by Hamilton National Bank with \$400,000 capital stock to erect 12-story bank and office building, has opened building proposals; Allen & Curry, Chamberlain Bidg., Chattanooga, lowest bid-ders; reported that bidders may revise fig-ures; plans by R. H. Hunt, Chattanooga; plans for steel frame by Purdy & Henderson, New York; W. Dunbar Jenkins, engineer in

Tex., El Paso,-R. D. Martin will erect Mice building

Tex., Quanah.-L. Simpson will expend \$20, 000 to erect bank and office building; 25x115 feet. ordinary construction: Campbell's gravity system of heating; electric lighting; plans by A. Moffat, Monatain Park, Okla.; day work: no material needed. (Noted in February.)

Tex., Kingsville.-St. Louis, Brownsville & Mexico Railway, E. C. Burgess, engineer, will erect office building to cost \$45,000.

Tex., Kerrville. - First State Bank will rect bank building.

Tex., Waco.-Amicable Life Insurance Co., Artemus Roberts, president, will have plans prepared by Sanguinet & Stants of Fort type of the Sanguinet & Stants of Fort Tex., for office building recently noted; 29-story structure; 50x105 feet; cost \$500,000

complete; plans probably ready in 60 days; preliminary plans not yet decided.

W. Va., Charleston.—Kanawha & Michigan Raliway, F. B. Shelton, chief engineer, Columbus, O., is having plans prepared, it is reported, for office building.

#### CHURCHES

Ala., Bessemer.—First Methodist congrega-tion, Rev. J. T. Sturdivant, pastor, will erect edifice to cost \$50,000; structure to be 95x140 feet; Bedford stone; plans by P. J. La Belle, 228 Hood Bldg., Birmingham, Ala.; will be ready for bids June 1. Address architect.

Ala., Birmingham. — North Birmingham erian congregation will erect edifice inday-school building. Address The North Birmingham Presbyterian Sunday-school Church

Aia., Ensley.-Methodist Church, Dr. J. D Simpson, pastor, Avenue G and 20th St., will complete edifice; estimated cost, \$30,000.

Ala., Montgomery. — Central Presbyterian Church, Rev. W. P. Nellson, acting pastor, purchased site, 147x220 feet, for \$9000 on which to erect edifice.

Ark., Van Buren.-First Methodist congre-ation will erect edifice. Address The Pasgation will erect edifice. Actor, First Methodist Church.

D. C., Washington.—First Church of Christ, Scientist, 15th and R Sts. N. W., has plans for edifice at Euclid St. and Columbia Rd.; marble and terra-cotta; cost \$100,000.

Fla., St. Augustine.—First M. E. Church Rev. C. C. Cecil, pastor, will erect edifice.

Ga., Covington. - Methodist congregation will remodel main church building and erect Sunday-school room annex; addition will be 23x100 feet and contain 18 classrooms. Address The Pastor Methodist Church

Ky., Georgetown. — Baptist Church has plans by E. M. Stamler, Lexington, Ky., for Sunday-school addition and enlargement of auditorium; 40x45 feet; two stories; brick; ordinary construction; steam heat; cost

Ky., Danville.—Christian Church will have plans prepared by George W. Kramer of New York for edifice to cost \$50,000.

Ky., Paris.-Methodist Church accepted plans by S. E. Desjardins, Cincinnati, O., for edifice to cost \$20,000 . Henry A. Power, chair man building committee

La., Lake Charles.-Catholic congregation rebuild edifice recently reported burned oss of \$30,000. Address The Pastor, Cath-

La., New Orleans.—8t. Charles Avenue Baptist Church, Rev. W. H. Brengle, pastor, will erect Sunday-school building to cost about \$7000.

Miss., Corinth.-Waldron Street Christian ongregation will erect edifice to cost about 000. Address The Pastor, Waldron Street Christian Church.

N. C., Spring Hope.-Methodist co tion will erect edifice. Address The Pastor Methodist Church.

Okla., Blackwell.-Methodist Episcopal gregation will erect edifice to cost \$25,000. Address The Pastor, Methodist Episcopal

Okla., Purcell.-First Christian Church has plans by A. H. Humphrey, Oklahoma City, Okla., for edifice to cost \$6000.

Okla., Purcell.—Methodist Episcopal Church South has plans by Smith & Parr, Oklahoma South has plans by Smith & Parr, Oklahon City, Okla., for edifice to cost \$10,000.

8, C., Greenwood.—Methodists of West End Chapel, Rev. W. H. Murray, pastor, will Chapel, Rev. W. H. Murray, pastor, erect edifice to cost \$10,000.

8. C., Greenwood.—Baptist congregation contemplates improving edifice at cost of \$20, 600. Address The Pastor, Baptist Church.

S. C., St. Matthews.—Baptist congregation contemplates erecting edifice. Address The Pastor, Baptist Church.

Tenn., Gallatin. — Church of Christ will rect edifice. Address The Pastor, Church of Christ.

Knoxville.-Church Street M. Church South has plans for edifice; seating capacity, 500; B. W. Akers, J. G. Cannon and others comprise committee.

Tex., El Paso.-Catholic congregation co templates erection of church building, s building, rectory and convent, expending about \$200,000. Address The Pastor, Catholic Church, East 3d St.

Tex., Sweetwater. - Baptist c will erect \$20,000 brick edifice. Address The Pastor, Baptist Church

Va., Harrisonburg.-Methodist Church, Rev Homer H. Sherman, pastor, purchased site 106x252 feet on which to erect edifice.

Va., Petersburg .-- Othodox Hebrew congre n purchased site on which to erect syna-e. Address The Rabbi, Orthodox He gogue brew Church.

Va., Richmond.—Clopton Street congrega-tion is completing plans for erection of pro-posed edifice. Address The Pastor, Clopton Street Church.

Va., Salem.-St. Paul's Episcopal congre-

gation will soon award contract for erection of edifice. Address The Pastor, St. Paul's Episcopal Church.

#### COURTHOUSES

Tex., Gainesville.-Bids will be received until May 16 at office of C. R. Pearman, County for erection of three-story-and-base dreproof courthouse; plans and spec as prepared by Lang & Witchell, Da ment fireproof courthouse; plans and speci-fications prepared by Lang & Witchell, Dal-lus, Tex., and Garrett & Collins, Gainesville, associate architects; separate bids will be received for plumbing, heating and wiring; received for planning, heating and wiring; estimated cost of building complete, \$135,000; contractor is required to deposit check for \$25 with architects to secure plans and speci-fications; certified check for 5 per cent. of bid to accompany proposals; plans on file with architects

Va., Hampton. - Elizabeth City County Board of Supervisors will erect two-story Board of Supervisors will erect two-story addition to courthouse; lower floor to be used as clerk's office, and will contain fire and burglar-proof vault; estimated cost, \$10,000; bids will be opened May 18; Harry H. Holt, Clerk of Courts.

## DWELLINGS

Ala., Birmingham,-L. T. Beecher has plans by Warren & Welton, Birmingham for resi-dence in Graymont; 35x40 feet; English thatched roof style; two Della Robbia panels n each side : cost \$7500.

Ala., Birmingham.-W. T. Simmons has laus by W. C. Weston, 1114 Brown-Marx Bidgs., Birmingham, for dwelling; nine rooms; brick veneer; cost \$15,000; P. O. Rau-lall, constructing engineer, Birmingham, in charge of construction. Bldg.

Ala., Birmingham.-Oscar R. Hundley will

Ark., Helena.-Utley & Utley, 3291/2 Cherry St., Helena, Invite subcontractors to bid heating, plumbing and gasfitting, elect wiring, exterior and interior plastering, co crete foundations, carpentry, lumber, millwork, etc., composition roofing and painting for three-story frame and stucco 18-room dwelling; also 2½-story residence. (See "Machinery Wanted.")

Ark., Little Rock. — Walter F. Reichardt will erect residence; two stories; first story granite; second story granite veneer; cost 24500.

D. C., Washington.—Warren F. Brenizer, 141 Q St. N. W., will erect residence on Co-lumbia Rd. near 18th St.

Washington.-O. G. Staple tor of Riggs House, will erect 25 dwellings at 15th and H Sts. N. E.; cost \$5000 to \$7000

D. C., Washington.-Richard T. Mulligan 1432 M St. N. W., is having plans prepared by J. H. De Sibour, Hibbs Bldg., Washing-ton, for \$40,000 residence.

D. C., Washington.—Clark Waggaman, 2600 Connecticut Ave. N. W., will erect residence on R St. N. W., between 18th and 19th Sts.

D. C., Washington.W. B. Mason, 1219 Counceticut Ave. N. W., will erect residence of R St. N. W., between 18th and 19th Sts.

D. C., Washington.—Josiah A. Van Orsdel, 500 Ontario Rd. N. W., will erect residence at Columbia Rd. and Wyoming Ave.

D. C., Washington.—Charles A. Peters, 625 14th St. N. E., has plans by A. H. Beers, 1333 G St. N. W., Washington, for 13 two-story dwellings at 1815-1821 Allison St. and 4426-4442 Kansas Ave. N. W.; two stories; brick; cos \$32.500 : construction by owner

Fla., Jacksonville.-J. S. Halsema will erocci wo-story frame dwelling

Fla., Tampa.-W. W. Hooper will erec

Ga., Hawkinsville.-Walter Merritt will

Ky., Paris .- F. J. Savage will erect resi-; two stories; frame; cost \$3000.

La., Lake Charles.-Immaculate Conception Church, Rev. H. Cramer, rector, will rebuild rectory recently reported burned. (See

La New Orleans.-Hamilton P. Jones will

Md., Baltimore.-Henry Geidt, 2103 East reston St., will erect residence on Ci oke Rd.; two and a half stories; fram

Md., Baltimore.—Martin Meyer has plans by Louis Levi, American Bidg., Baltimore, for residence at Main and Oakfield Aves.; two and a half stories; frame and stucco; cost \$6000

Md., Baltimore.—John L. Becker, 1809 East Pratt St., is having plans prepared by H. J. Tinley, 314 North Charles St., Baltimore, for residence; three stories; brick; cost \$10,000; dwelling to be 32x45 feet; hot-water heat.

Md., Baltimore.-Mrs. William M. Ellicott. St. Paul and Madison Sts., is having plans prepared by Ellicott & Emmart, Union Trust Bldg., Baltimore, for improvements to dwell-ing; cost \$13,000.

Baltimore. — Barney Goldstein, 23 High St., purchased site on Reisters Ma North High St., purchased site on Reisterstown Rd.; 300x120 feet; will erect two-story emi-detached dwellings; cost \$2500 each.

Md., Baltimore.-Mrs. Lela L. Lane, East Chase St., will erect cottage at Beach Ave. and 12th St.

Md., Baltimore.—Maurice Gumenick, 1431 ast Fayette St., will erect 16 dwellings on Brighton St.: 14x48 feet: two stories: brick: st \$32,000.

Md.. Baltimore. - James D. Downes, 718 North Monroe St., will erect cottage on Car-lisle Ave.; 50x150 feet.

Md., Baltimore.-New Era Realty Co. of Philadelphia, Pa., purchased site at Brighton and Baker Sts. and will expend \$100,000 for erection of two-story brick dwellings.

Md., Baltimore.—L. P. Temple, 415 Equitable Bidg., has plans by B. W. Blake, 329 East 22d St., Baltimore, for cottage on Main Ave., Forest Park; two and a half stories; frame and stucco; cost \$6000; structure to be fax50 feet; 12 rooms; ordinary construction; hot-water heat; gas and electric lighting; bids opened May 10. Address architect. (See "Machinery Wanted.")

Md., Baltimore.—New Era Realty & Construction Co., Highland Ave., will erect eight dwellings on 7th St.; cost \$17,500.

Miss., Houston.—Mrs. O. C. Ehrlick is hing plans prepared by M. M. Alsop, I Bena, Miss., for dwelling; cost \$2000. Alsop, Itta

Miss., Itta Bena.—G. R. Mahoney is hav-ng plans prepared by M. M. Alsop, Itta Bena, or six dwellings; cost \$2000 each

Mo., Kansas City.—Harry F. Wunderlich vill erect residence

Mo., St. Louis.—George E. Williams will rect dwelling. Mo., St. Louis.-Hugo Deutmann will erect

Mo., St. Louis.—Robert F. Miller will erect clock of dwellings in Grand Kingshighway

Mo., St. Louis.-William Degenhardt will bungalow. Mo., St. Louis.-St. Mark's Church will

wo-and-a-half-story dwelling; cost Address The Pastor, St. Mark's Church.

N. C., Alexis .- Jack Stroup will erect r

N. C., Asheville,-Mrs. O. C. Hamilton has lans by R. S. Smith for residence; concrete

onstruction. N. C., Belmont.-R. S. Armstrong will erect

N. C., Belmont.-A. C. Lineberger, Tuske-

ee, N. C., will erect residence.
N. C., Gastonia.—Mrs. E. C. Wilson will ect residence.

N. C., Greensboro,-Trustees Grace M. P. Church will expend \$2500 to erect eight-room parsonage recently noted; ordinary frame construction; heating not decided; architect not selected.

Md., Baltimore.-C. Frank Jones, 1744 West North Ave., has plans by Stanislaus Russell, Clifton Ave. and 7th St., Baltimore, for addition to residence at 1755 West North Ave.; three stories; brick; 16x20 feet; cost \$3000.

Md., Baltimore.-Howard Realty Co., 315-17 Gaither Bldg., has plans by Stanislaus Russell, Clifton Ave, and 7th St., Baltimore, for six dwellings on Clifton Ave.; two stories; brick; 15x60 feet; cost \$20,000.

Md., Baltimore.—Charles R. Diffenderfer, 1731 North Charles St., has plans by Owens & Sisco, 1605 Continental Trust Bidg., Baitiore, for improvements to residence; cost \$15,000

Md., Ellicott City.-E. M. Gillet, New Cut Rd., has plans by Jacob F. Gerwig, 210 East Lexington St., Baltimore, Md., for improve-ments to dwelling on Winters farm; cost \$6000.

N. C., Mt. Holly.-C. E. Hutchinson will

Okla., Oklahoma City.-L. L. Land, 407 East Park Pl., has plans by Layton, Wemyss, Smith & Hawk, Majestic Bidg., Oklahoma City, for residence; two stories; press brick and stone; gas and electric lights; cost

Okla., Oklahoma City.-O. P. Workma Okia., Okianoma City.—O. P. Workman has plans by Layton, Wemyss, Smith & Hawk, Majestic Bidg., Okiahoma City, for residence; two stories; press brick and stone; gas and electric lights; cost \$12,000. Okia., Okiahoma City.—C. Ames has plans by Layton, Wemyss, Smith & Hawk, Majestic

Bldg., Oklahoma City, for residence; two stories; reinforced concrete, stone and terra-

cotta trimmings; gas and electric lights; cost

Chattanooga.-S. T. Dewees, 819 Tenn., Market St., is having plans prepared by D. V. Stroop, James Bldg., Chattanooga, for dwelling in Riverview.

Tenn., Chattanooga.-Dr. Raymond Walis having plans prepared for prop dwelling.

Tenn., Chattanooga.—W. C. Johnson, man-nger of Chattanooga News, will, it is report-ed, erect dwelling on Mission Ridge.

Tenn., Humboldt .- H. J. Foltz will rebuild dwelling previously reported burned; 40x19 feet; two stories and basement; hot-water heat; slate and galvanized shingle roof; cost \$4000

Tenn., Memphis.-James E. Stark will erect esidence : cost \$15,000.

Tenn., Memphis.-John M. Prichard will rect residence

Tenn., Memphis.—J. B. Wyckoff will erect esidence in Goodbar.

Tenn., Memphis.-D. T. Patrick will erect

Tenn., Morristown.-T. H. Reeves will erect

Tenn., Nashville. - J. S. Campbell will ect residence; brick vene

Tenn., Nashville.-M. Petrone will erect cost \$6000. brick store and dwelling;

Tex., Palestine.-J. W. Link is having plans prepared by H. C. Banker, Orange, Tex., for residence; face brick; reinforced concrete floors; estimated cost \$40,000.

Tex., Palestine.—J. C. Silliman will erect brick dwelling; hardwood floors; slate roof; hot-air heat; electric and gas lighting; building to be 50x50 feet; two stories, attic and basement: slag roof: metal lath: plaster interior; concrete foundation; cost \$10,000.

Tex., Waxahachie.-O. H. Chapman will open bids June 1 for erection of 10-room dwelling recently noted burned; two stories; ordinary construction; cost \$3000.

Tex., Westhoff.-G. H. Fishbeck, Moulten. ., will erect reside

Va., Fredericksburg.-W. W. Butzner will erect residence; plans in progre

Va., Locustville.-Charles A. Douchlied and John W. Surbrug of New York leased Parra ories Point, and will erect bungalows for gunners

Va., Norfolk.—S. R. Nicholls has plans by B. F. Mitchell, Norfolk, for residence; frame.

Va., Norfolk.—Charles F. Burroughs has plans by Ferguson, Calrow & Taylor, Nor-folk for residence; brick and stone; cost \$30,000 to \$35,000.

Va., Richmond.-W. W. Timberlake will rect residence in Ginter Park.

Va., Richmond.—G. B. Mountcastle will rect residence in Ginter Park. Va., Richmond.-Eva K. Melton will erect

ame dwellings. Va., Richmond.-St. Andrew's Association will erect double brick tenement; cost \$5000. Va., Richmond.—B. H. Melton will erect dwelling; brick; cost \$8000.

W. Va., Bluefield.-Washington Realty Co. W. Va., will grade streets and sidewalks and erect dwellings.

## GOVERNMENT AND STATE BUILD-INGS

Mice Meridian - Hospital - Trustee Mississippi Insane Hospital, J. M. Har-ell, secretary, invite plans and specifica-tions for male college until May 1. For par-ticulars address Dr. J. M. Buchanan, superintendent.

Mo., Carrollton—Postoffice. — Treasury De-partment, Office of Supervising Architect James Knox Taylor, Washington, D. C. Sealed proposals will be received until June 2 for construction (including plumbing, gaspiping, heating apparatus, electric conduits and wiring) of U. S. postoffice, in accord-ance with drawings and specification, copics of which may be had from custodian of site at Carrollton or at this office, at discretion of architect.

N. C. Kitty Hawk-Life-saving Station .-Treasury Department, U. S. Life-Saving Service, Washington, D. C. Proposals will be received until May 17 for construction of two life-saving stations, one at Chicamacomico, N. C., and other at Kitty Hawk; specifactions and drawings, form of proposal, etc., can be obtained upon application to Superintendent of Seventh Life-Saving District, Shawboro, N. C.; Superintendents of Construction of Life-Saving Stations, 379 Washington St., New York city, or to above office; S. I. Kimball, General Superintendent.

Okla., Enid-Postoffice, etc.-Thomas Livel!-

\$111,708 for erection of United States postoffice and courthouse; James Knox Taylor, supervising architect, Treasury Department, Washington, D. C. (Recently mentioned.)

Okla., Pryor—Orphans' Home.—State Board of Public Affairs, R. J. Allen, chairman, will receive proposals until May 16 for crection of two cottages, power-house, installation of heating, plumbing and electric light and power for Oklahoma State Orphan Home at Pryor Creek, Okla., in accordance with plaus and conditions of specifications prepared by P. H. Weathers, Guthrie, Okla., supervising architect of State Board. Plans and specifications may be seen at office of B. F. Lee, superintendent, at Pryor Creek; of State Board of Public Affairs and of supervising architect; proposals to be submitted on forms prepared and furnished by supervising architect. Bids will be received for entire work, including buildings and all installation combined, and also on cottages, power building, steam heat, electrical work and sewerage, each separately; certified check equal to 5 per cent. of total amount of highest proposal submitted by bidder; bids to be addressed to T. A. Chandler, acting secretary, Guthrie. (Previously mentioned.)

Tex., Austin—Insane Asylum.—Bids opened by State Lunatic Asylum Board at office of Dr. Preston May 5 for construction of additions to buildings at State Lunatic Asylum according to plans and specifications by C. II. Page & Bro., architects, Austin; also for plumbing, heating and electric wiring.

Tex., Fort Sam Houston.—War Department, Washington, D. C., will let contracts June 30 for construction of additional cavalry and artillery barracks, involving expenditure of \$175,000; quarters to be augmented to accommodate full regiment of each branch; pumping and iee plant, laundry and accommodations for machine gun platoon also provided for; Tilman Campbell, constructing quartermaster. (Previously noted.)

#### HOTELS

Ark., Little Rock.—Will Hoffman, 1220 West 2d St., will erect hotel and store building recently mentioned; 45 to 60 rooms; ordinary construction; size 240x75 feet; 8 storerooms; plans being prepared; construction by owner; cost \$25,000 to \$30,000.

Ark., Marianna.—Marianna Hotel Co. organized with \$25,000 to erect three-story hotel; W. S. McClintock, president; J. R. Jarratt, vice-president; F. N. Burke, secretary, and H. I. Dixon, treasurer.

Ga., Augusta.—S. J. Newcomb and J. A. Newcomb have leased Albion Hotel and will expend \$20,000 in improvements.

Md., Baltimore.—Henry J. Tinley, 314 North Charles St., Baltimore, is preparing plans for improvements to Waldorf Hotel at Charles St. and North Ave.; interior to be rearranged and elevator installed.

Miss., Jackson.—C. Jones contemplates rebuilding burned Norvelle Hotel; new structure to be six or seven stories high.

Miss., Vicksburg.—George L. Keene, Savannah, Ga., leased Hotel Carroll from Herman estate; stfucture will be enlarged.

Mo., Columbia.—Judge John A. Stewart, promoter, should be addressed relative to proposed \$100,000 fireproof hotel; S. F. Conley (solicitor) and others were recently noted interested in organization of company; project not definite.

Mo., Kansas City.—James Ketner, proprietor Densmore Hotel, leased site 91x131 fect adjoining hotel on which to erect 150-room addition, costing \$175,000.

N. C., Greenville.—A. A. Gates, Hendersonville, N. C., has plans for hotel; five stories; reinforced concrete; 100x100 feet; 125 bedrooms, assembly hall, etc.; cost \$200,000.

Okla., Hugo.-C. L. Webb will erect three-story hotel.

Tex., Corpus Christi.—J. C. Scott will erect four-story brick hotel to cost \$125,000 on site of Sesside Hotel.

Tex., Stamford.—J. R. Cargill is having plans prepared by S. B. Elliott, Stamford, for building. (See "Miscellaneous Structures.")

Tex., Sweetwater.—Beall & Beall are promoting erection of three-story brick hotel.

Va., Roanoke. — Shenandoah Hotel Co. opened bids for erection of annex to Shenandoah Hotel; C. D. Keffer of Roanoke is lowest bidder at \$30,000 for erection of two-story building and at \$37,000 for erection of threatory building.

## MISCELLANEOUS STRUCTURES

Ala., Birmingham—Store.—Ramsay & Mc-Cormack will erect store at 1801 Avenue E; two stories; brick; cost \$5000; will also ex-

pend \$4000 for improvements to building at 1901 Avenue E.

Ala., Birmingham—Store.—Lane & Hinkle will erect store building; two stories; brick; cost \$5000.

Ark., De Witt-Store.—T. J. Davis will erect store; brick; 50x80 feet; plate-glass front; one story.

Ala., Ensley-Business.—Ensley Company will erect two business building; two stories; brick.

Ala., Ensley-Store.-Averty's Pharmacy will expend \$12,000 for enlarging and remodeling store building; plate glass and marble front.

Ala., Tuscaloosa-Stores.-R. H. Little will

Ala., Tuscaloosa-Stores.-C. B. Verner will

Ark., Little Rock.—Will Hoffman, 1220 West 2d St., is having plans prepared for hotel and store building to contain eight storerooms; cost \$25,000 to \$30,000. (See "Hotels.")

Ark., Little Rock-Store.-Gus Blass Dry Goods Co. will erect department store.

Ark., Perla.—Malvern Lumber Co. will rebuild commissary and office building recently reported burned; brick or concrete; cost \$4000.

D. C., Washington—Business.—H. R. Howenstein Company, 1314 F St. N. W., has plans by H. A. Bright, 622 Maryland Ave., Washington, for seven buildings on South Carolina Ave.; two stories; brick; cost \$17,000.

D. C., Anacostia, Station H-Store.-Spungard & King, Evans Bldg., Washington, D. C., have plans by Miller & Miller for three stores.

Fla., Jacksonville—Store.—Cohen Bros. are having plans prepared by H. J. Klutho, Jacksonville, for department-store building; four stories; 210x315 feet; reinforced concrete; brick and terra-cotta finish; total floor space of 264,000 feet; four passenger and one freight elevators. (Previously mentioned.)

Fla., Kissimmee — Business. — J. M. Miller will rebuild business building recently burned; 30x70 feet.

Fla., Kissimmee—Business.—J. W. Miller contemplates rebuilding structure recently burned; fireproof construction; brick.

Fla., Klssimmee—Stores.—D. Rotundo has plans prepared by M. Kelly, Klssimmee, for rebuilding two store buildings recently burned; 70x25 feet; semi-fireproof construction; cost \$3500. (See "Machinery Wanted.")

Fin., Kissimmee—Business.—John Beaman will rebuild business building recently burned; 20x60 feet.

Fla., Key West—Jail.—Monroe County Commissioners will receive bids addressed to E. W. Russell, Clerk of Circuit Court, until June 15 for erection of addition and repairs to jail; certified check for 5 per cent. amount of bid, payable to J. R. Curry, chairman; plans and specifications on file at office of

Ga., Cordele—Business.—G. L. Deckle & Bro. will expend \$12,000 to erect business building recently noted; 50x100 feet; three stories; freight elevator.

La., Alexandria-Grandstand.-J. F. Letton will soon award contract for erection of grandstand; 600 feet long; to seat 5000 people.

La., Lake Charles—Business.—John Storer contemplates rebuilding business building recently reported burned.

La., Morgan City-Stores.-Mrs. D. K. Goldman will open bids May 15 for erection of building to contain stores, offices and apartment; 50x80 feet; plate-glass front; pressed brick; steel celling; composition roof; concrete floor; cost \$6000; plans by P. B. Ghirardi, Morgan City.

La., Morgan City-Business.-J. J. Goldman will erect business building; two stories; brick.

La., New Orleans.—Ephraim Rosenberg is having plans prepared by Keenan & Weiss, 418 Hibernia Bldg., New Orleans, for store building; 35x140 feet; semi-mill construction; sanitary flooring; fire-protective devices; pressed-brick front; prism-glass transoms; cost \$15,000. Address architects.

Md., Baltimore—Labor Temple.—Federation of Labor, 1911 East Baltimore St., Edward Hirsch, president, is considering erection of labor temple. Address Robt. E. Lee, attorney, Gaither Bidg., Baltimore.

Md., Havre de Grace — Store.—John N. Spencer will erect store; three stories and basement; brick; 30x50 feet.

Md., Hagerstown — Business. — Schindel, Rohrer & Co. will erect business building; four stories.

Miss., Meridian-Store.-M. W. Wagner has plans by Burt Stuart, Meridian, for store and office building recently noted; 25x65 feet; three stories; cost 10,000.

Mo., Frederickstown-Store and Office,— Matthews & Clarke, Missouri Trust Bldg., St Louis, preparing plans for store and office building; 60x83 feet; press brick and Car thage stone; ornamental and architectural iron; electric fixtures.

Miss., Columbia—Store.—Walker Bros. will erect two-story brick store building; 30x100 feet; brick; cost \$5000; plans by Heath Bros. Gulfport, Miss.

Mo., Kansas City-Business.-B. II. Wheeler will erect business building; two stories; brick and concrete; 44x141 feet; cost \$18,000.

Mo., Kansas City-Clubhouse.-Kansas City Athletic Club will erect clubhouse.

Mo., St. Charles—Natatorium.—St. Charles Natatorium is having plans prepared by Klipstein & Rathmann, Chemical Bidg., St. Louis, for natatorium; press brick and Carthage stone; electric lighting; shower baths, etc.; cost \$12,000.

N. C., Asheville—Fair Buildings.—Jackson County Fair Association organized with \$5000 capital stock; Thos. A. Cox, president; Geo. P. Miller, vice-president; M. Buchanan, treasurer; A. J. Dills, secretary; will award contracts for erection of fair buildings, etc.

N. C., Charlotte—Orphanage.—Thompson Episcopal Orphanage, Mrs. Vinton Liddell, president, will expend \$100,000 for improvements, including erection of \$30,000 administration building and several \$5000 cottages; stone and brick; electric lights, etc.

N. C., Goldsboro—Hospital.—Goldsboro Hospital, Geo. C. Royal, chairman, will open bids July 1 for erection of hospital recently noted; 45x120 feet; ordinary construction; steam heat; electric lighting; cost \$20,000; plans by H. E. Bonitz, Wilmington, N. C. (See "Machinery Wanted.")

Okia., El Reno — Market. — Choctaw Meat Market will erect building; one story; construction to permit erection of two additional stories; white enamel brick front; maple floor laid on concrete base; prism lights; plans by J. W. Vogel, 3-4 Opera-house, El Reno.

Okla., Enid.—L. W. Cotton has plans by Roy Shaw, Enid, for business building recently noted; 35x100 feet; mill construction; hot-water heat; electric lighting; cost \$7000; bids opened May 6.

Okla., Enid — Business. — John W. Shutler, Kingfisher, Okla., will erect business build ing; two stories; 25x60 feet.

Okla., Enid-Business.-Gannon & Gould ing will creet five-story business block; 75x15t feet.

Okla., Hugo-Business.—Overstreet & Collins will erect business building; two stories; double; brick; cost \$14,000.

Okla., Hugo—Business.—Fuller Bros, will erect brick business building. Okla., Pawhuska — Business.— Tom Smith,

Muskogee, Okla., will erect business building; three stories; brick. Okla., Skiatook – Business, – C. G. Eaton

will erect business building; two stories; brick; 25x50 feet. Okla., Tulsa-Business.-George W. Groves

okla, Tulsa-Busiless. George W. Groves has plans by Oklahoma Architectural Co., Oklahoma City, for business building recently noted; brick; gas and electric lighting; cost \$5000.

 C., Florence—Business.—James D. Evaus will erect business building; three stories; brick.

8. C., Hartsville — Recreation Building. — Hartsville Cotton Mill will erect recreation building for operatives; three stories; stean heat; electric lights; water-works; showed baths; auditorium; assembly hall to seat 350 people, etc.

Tenn., Chattanooga.—Odd Fellows Temple Co., E. N. Shelton, president, 114 East 7th St., will erect proposed mercantile, lodge and office building. (See "Bank and Office Buildings.")

Tenn., Nashville - Store. - Mrs. John Hill Eakin will erect double brick store building; cost \$5000.

Tenn., Nashville—Gymnasium, etc.—Methodist Episcopal Church South will erect building in connection with Warloto Settlement work; will contain gymnasium, baths, etc.; cost \$8000. Address The Pastor, Methodist Episcopal Church South.

Tex., Abilene.—Alexander Sanitarium in corporated with \$50,000 capital stock by J. M. Alexander, J. M. Estes and A. P. McLemore

Tex., El Paso.—El Paso Electric Railway will expend \$11,000 for erection of car barn; capacity, 60 cars.

Tex., Edgewood — Store. — H. M. Milisap has plans by R. M. Ferguson, Edgewood, for store building; brick: 48x120 feet; two plateglass fonts; cost \$5000. Tex., El Paso-Store.-Silberberg Bros. will expend \$3000 for improvements to first floor of Van Biarcom Bidg., including plate-glass front.

Tex., Houston-Store,-Foley Bros. leased building and will make improvements.

Tex., Houston — Business. — Bering-Cortes Hardware Co. is having plans prepared by Sanguinette & Staats, Houston, for business building; six stories; reinforced concrete; outer finish buff or gray pressed brick; frontage 75 feet; three electric elevators; power plant in basement; electric lights; fire-screens at each window and metal doors on each floor; cost \$75,000. (Previously mentioned.)

Tex., San Antonio—Sanitarium.—Tallman Sanitarium Co. incorporated with \$20,000 capital stock by W. L. Tallman, E. H. Terreli and J. T. Wilson.

Tex., Stamford—Stores.—J. R. Carglil is having plans prepared by S. B. Elliott, Stanford, for business building; 82½ feet frontage; first floor to contain three stores; second floor to have 50 sleeping-rooms.

Tex., Wichita Falls.—Wichita County Commissioners are having plans prepared by Jones & Orlopp, superintending architects, 12 Kemp & Lasker Bidg., Wichita Falls, for Jail recently noted: will use three old felony cells with corridors; total cell capacity for 50; separation of whites and blacks, juvenite and insane; hospital room, rooms for sheriff; cost \$20,000. Address architects.

Va., Toms Creek (not a postoffice)—Commissary.—Virginia Iron, Coal & Coke Co., Roanoke, Va., will receive bids May 9 for erection of proposed commissary; 159x5x44 feet; mill construction; tile roofing; reinforced concrete floor; electric lighting; freight elevator; will install ice and cold-storage plant, showcases, shelving, etc.; cost \$25,000; plans by Huggins & Bates, Roanoke, Va.; W. B. Bates, consulting engineer, Roanoke, Address proposals to W. M. Morgan, 413 Strickland Bidg., Roanoke.

W. Va., Montgomery,—George Love will erect business building; three stories; brick.

## MUNICIPAL BUILDINGS

Fig., Pensacola—Market,—City will vote in June on issuance of \$50,000 of bonds for establishment of central market; L. Earle Thornton, City Engineer.

Ga., Atlanta-Fire Station.—City will open bids May 7 for crection of fire station recently noted; 45x95 feet; two stories and basement; ordinary construction; cost \$12,-900; plans by Morgan & Dillon, Grant Bidg., Atlanta.

Ga., Atlanta—Fire Stations.—Bids will be received by Board of Fire Masters until May 7 for erection of fire station No. 12 and fire station No. 7; contractors are requested to bid for one building and for both; plans and specifications may be seen in office of Margan & Dillon, architects, Grant Bidg., Atlanta; certified check for \$300, payable to J. C. Harrison, chairman, to accompany each

Ga., Douglas City-City Hall and Fire Station.—City will erect city hall and fire station combined; two stories; pressed brick; 40x75 feet; first floor for fire station and second floor for city hall. Address The Mayor,

La., New Orleans—Engine-houses.—W. J Hardee, City Engineer, prepared plans for two engine-houses to be built in Twelfti ward.

La., New Orleans—Engine-house and Insane Asylum.—F. A. Noullet & Son of New Orleans are lowest bidders at \$7281 for erection of two-story frame engine-house at 8t. Mary, 8t. Charles, Carondelet and Pelicity 8ts.; Michael Chessi & Co. of New Orleans are lowest bidders at \$33,590 for erection of two-story insane nsylum building on Home of Detention grounds.

Tenn., Memphis—Englue-houses and Police Station.—City purchased sites on which to erect two fire-engine houses and police station. Address The Mayor.

Tex., Bowle-City Hall and Fire Station.— City will erect city hall and fire station; two stories; 36x140 feet; cost \$15,000. Address The Mayor.

Va., Alexandria-Jail.—City is considering remodeling of jail or erection of building; B. F. Smith Fireproof Construction Co., 818 14th 8t. N. W., Washington, D. C., submitted plan for remodeling.

Va., Richmond—Exhibition Hall,—Council Committee on Finance recommended to City Council appropriation of \$45,000 for erection of exhibition hall on property of Virginia State Fair Association; Charles E. Boiling, City Engineer

Va., Norfolk-Police Station.—City Council will consider ordinance for erection of police headquarters; estimated cost, \$35,000; John Kevan Peebles of Norfolk is drawing preliminary plan; W. R. Johnson, chairman Public Improvement Committee.

Va., Norfolk—Fire and Police Station.—Board of Control will receive bids until May II for erection of fire and police station in Berkley ward according to plans and specifications by Lee & Diehl, 408 Scaboard Bank Bidg., Norfolk; plans can be secured at office of architects upon deposit of \$25; certified check for 5 per cent. of bid to accompany each proposal.

#### RAILWAY STATIONS

Ark., Arkadelphia.—St. Louis, Iron Mountain & Southern Railway, M. L. Byers, chief engineer, St. Louis, Mo., invites bids on erection of depot; plans call for three buildings all of pressed brick; main building to have tiled roof and floors, water, sewer and electric-light connections; other two buildings are for freight and express rooms; 190-foot brick platform; cost \$35,000. (Recently mentioned.)

Okla., South Coffeyville.—Missouri Pacific Railway, M. L. Byers, chief engineer, St. Louis, Mo.; St. Louis, Iron Mountain & Southern Railway, M. L. Byers, chief engineer, St. Louis, Mo., and Missouri, Kansas & Texas Railway, S. B. Fisher, chief engineer, St. Louis, Mo., will erect \$10,000 union depot; grading has begun.

Tex., La Porte. — Houston & Bay Shore Traction Co., J. G. Miller, engineer, Houston, Tex., will erect various freight and passenger depots. (See "Electric-Light and Power Plants.")

#### SCHOOLS

Ala., Anniston.—Board of Education, A. L. Tyler, president, will open bids May 15 for erection of school; two stories; 100x36 feet; ordinary construction; brick; mechanical ventilation; cost \$10,000; plans by Chas. W. Carlton, Anniston; will also erect six-room addition to Wilmer Ave. school; cost \$10,000; (255,000 beyer scently noted.)

(\$25,000 bond issue recently noted.)

Ala., Birmingham.—Board of Education will receive bids at secretary's office, high-school building, until May 7 for erection of J. B. Cunningham School at East Birmingham; also for plumbing, wiring and vacuum system; certified check and bond; plans and specifications on file at office of D. O. Whildin, architect, Title Guarantee Bidg., Birmingham.

Ala., Gadsden.—John H. Disque, chairman Board of Education, will receive bids until May 16 for erection of school; two stories and basement; cost \$25,000; certified check for \$500; plans and specifications on file at office of C. B. Smith, architect, Stocks Bldg., Gadsden. (See "Machinery Wanted.")

Ala., Tuscaloosa.—City contemplates issuing \$10,000 bonds to erect school. Address The Mayor.

Ark., Helena. — Helena District School Board contemplates expending \$25,000 to creet high-school building.

Ark., Huntington.—City will vote May 21 ou \$15,000 bond issue to erect school; two stories; brick; eight rooms and auditorium to seat 350 people. Address The Mayor.

Ark., London.—Board of School Directors will open bids July 1 for erection of school building recently noted; 80x100 feet; brick; stoves; cost \$8000 to \$10,000.

Ark., Lockesburg.—City will vote May 21 on \$10,000 bond issue to erect brick school. Address The Mayor.

Ark., Prairie Grove. — City voted \$20,000 bond issue to erect school. Address The Mayor.

Ark., Russellville.—School Board will receive bids until May 14 (change of date) for erection of two two-story eight-room schools; certified check for \$200; plans and specifications on file at office of Frank W. Gibb & Co., architects, 226 Gazette Bldg., Little Rock, Ark., or at Burke Brick Co., Fort Smith, Ark., and at office of J. A. Clifton, secretary of board, Russellville.

Fla., Jacksonville.—Afro-American Benefit Association will erect building; two stories; brick; cost \$10,000.

Fla., Key West.—Ruth Hargrove Institute contemplates expending \$27,000 for improvements, including erection of building and remodeling present structure.

Fla., West Palm Beach.—Tax School District No. 5 will vote May 31 on \$6000 bond Issue to erect school; J. Daugherty and others, School District Trustees.

Ga., Columbus.—Industrial Institute and College will erect \$75,000 dormitory building and other smaller buildings.

Ga., Springfield.—Effingham Academy has plans by E. J. & M. K. Dunne, Sumter, S. C., for \$10,000 building; 69x69 feet; mission style; covered with Ludowici tiling.

Ky., Hardin.—City voted bonds to erect school; two stories; brick; cost \$5000. Address The Mayor.

Ky., Winchester.—Board of Education will soon award contract for erection of proposed Wades Mill School.

La., Lake Charles.—Immaculate Conception Church, Rev. H. Cramer, rector, will rebuild school, rectory and church recently reported burned; cost \$100,000.

Md., Baltimore.—Agricultural Commission will call for new plans for Waverly school at Carroll and Windimere Aves.; cost not to exceed \$120,000; Edward D. Preston, Inspector of Buildings, City Hall.

Md., West Arlington (not a postoffice).-Baltimore County Commissioners, Towson Md., are planning to crect \$60,000 school a West Arlington.

Miss., Hazelhurst. — Hazelhurst Public School Board is having plans prepared by R. H. Hunt, James Bldg., Chattanooga, for two brick additions to schools recently noted; 30x70 feet each; steam heat; electric lighting; cost \$10,000; will open bids May 25. Address E. M. Cook, Mayor. (See "Machinery Wanted.")

Mo., St. Louis. — Washington University, Robert S. Brookings, president, plans erecting buildings for \$5,000,000 medical school at Kingshighway Blvd. and Euclid Ave.; including Barnes University, property interests valued at \$2,000,000, and Martha Parsons Hospital.

N. C., Elizabeth City.—Elizabeth City State Normal School planning to erect \$15,000 dormitory.

N. C., Fayetteville.—Donaldson Military School will erect building to replace present school.

N. C., Greensboro.—City voted \$35,000 bond issue for school improvements. Address The Mayor.

N. C., West Durham.—Durham County Commissioners, Durham, N. C., propose erection of \$30,000 school.

Okia., Anadarko.—Rev. F. T. Ricklin will open bids May 25 for rebuilding Indian mission school recently burned; 150x56 feet; fireproof construction; steam heat; acetylene lighting; cost \$50,000; plans by Oklahoma Construction Co., Anadarko.

Oklahoma.—Congregational church is considering several cities as new location for Kingfisher (Okla.) College; Revs. M. D. Reed, Weatherford, Okla.; J. F. Pereshing, Vinita, Okla., and J. Heasty, Medford, Okla., committee.

S. C., Charleston.—Board of Public School Commissioners, James Simons, chairman, Memminger School Bidg., Charleston, will expend \$25,000 to remodel Bennett school, recently noted; 65x112 feet; three mtories and basement; to be H-shaped; to contain !t classrooms, teachers' room, principal's office and library, drinking fountains and assembly room on first floor; plans by Todd & Benson, Charleston.

Tenn., Eastland.—Davidson county is planning to erect \$3000 addition to school; W. C. Anderson, County Superintendent, Nashville,

Tenn. Lonsdale, R. Station, Knoxville.— Lonsdale School Committee, M. M. Copenhaver, chairman, has plans by Baumann Bros., Knoxville, Tenn., for school building recently noted; 89x84 feet; two stories and basement; ordinary construction; brick; steam heat; bids opened May 2.

Tex., Alexander. - City voted \$8000 bond issue to erect school. Address The Mayor.

Tex., Brady.—Brady independent school district will erect eight-room school building recently noted; two stories; cost \$7000; arcititect not selected. J. D. Hudson may be addressed.

Tex., Kerrville.-School Board is receiving competitive plans for proposed school.

Tex., Laredo.—City will probably issue \$11. 000 of bonds to erect school. Address The

Tex., Milford.—Milford Independent School District, W. J. Hamlett, president of board, will expend \$17,500 to erect school building recently noted; two stories and basement; 70x00 feet; Il rooms; semi-fireproof construction; hot-air heat; acetylene gas lighting; plans by J. O. Gaibreath, Hillsboro, Tex.; bids opened April 30. (See "Machinery Wanted.")

Tex., Hondo.—Bids will be received until May 14 for erection of two-story brick addition to school; certified check for \$250; plans and specifications on file at office of F. B. Gaensien, architect, 136 West Commerce St., San Antonio, Tex., and of H. E. Haas, president of School Board, Hondo.

Tex., Pendleton.—City voted \$10,000 bond issue to erect four-room brick school. Address The Mayor.

Tex., Port Lavaca.—School Board, J. D. Crain, secretary, will erect brick school; cost \$21,000.

Tex., Pearsall.—School trustees have plans by Henry T. Phelps, San Antonio, Tex., for proposed school; 64x115 feet; brick and stone; three stories; 10 classrooms; auditorium to seat 600; steam or hot-air heat.

Tex., Ringold.—City will erect brick school building; cost \$8000 to \$9000; plans not complete. Address The Mayor. (\$12,000 bonds recently voted.)

Va., Dayton.—Shenandoah Collegiate Institute will erect \$10,000 dormitory and gymnasium building.

Va., Mineral.—Mineral Educational League, Boyd Smith, president, will receive bids until May 14 for erection of proposed high-school building; 60x60 feet; ordinary construction; brick and concrete; furnaces; cost \$8000; plans by C. M. Robinson, 10th and Main Sts., Richmond, Va.; plans and specifications on file with L. A. Keller, clerk of board; right to reject any and all bids reserved.

Va., Newport News.—Virginia State School for Colored Deaf and Blind Children, Wm. C. Ritter, superintendent, will open bids June 1 for erection of belier-house, laundry and shops; 96x50 feet; brick; steam hent; electric lighting; cost \$7000; plans by C. T. Holtzelaw, Hampton, Va.; will also erect superintendent's and teachers' residence, to cost \$2500 to \$3000; cost of improvements, including equipment, \$18,000. (See "Machinery Wanted.")

Va., Portsmouth.—City will issue \$50,000 of bonds for school improvements. Address The Mayor.

W. Va., Beckley.—City will vote May 17 on bond issue to erect high-school building; 12 rooms: brick. Address The Mayor.

W. Va., Charleston.—Board of Education, W. O. Daum, secretary, will receive bids until May 10 for erection of four-room addition to Lincoln School; plans and specifications on file at office of superintendent, High School Bidg.; certified check for \$500.

W. Va., Keyser.—Board of Education will open bids June 10 for erection of school building; 50x70 feet; ordinary construction; hot-air heat; cost 17,000. Address Jas. W. Stayman. (Recently mentioned.)

W. Va., Parkersburg.—Board of Education will open bids May 13 for erection of schoolhouse recently noted; one story; ordinary brick construction; cost \$3000; plans by D. W. Daley, Parkersburg. Address proposals to Geo. D. Heaton.

## THEATERS

D. C., Washington.—H. H. Elliott, 1520 14th St. N. W., is having plans prepared by Miller & Miller, Evans Bldg., Washington, for moving-picture theater, 40x100 feet, at 14th and Church Sts.

Ga., La Fayette.—R. M. W. Glenn and C. M. Warthen have plans for opera-house; seating capacity, 700 to 1000.

Md., Baltimore.—W. I. Wolfe is having plans prepared by Henry J. Tinley, 324 North Charles St., Baltimore, for amusement building at Strafford Ave. and Longwood Rd; 40x60 feet, and addition 25x30 feet; frame; cost \$1500; construction by owner; one story.

Md., Baltimore.—Daniel H. Braun, 878 Columbia Ave., purchased site 27x101 feet on Columbia Ave. on which to erect moving-picture theater.

Md., Oakland. — Knights of Pythlas will erect 45x110-foot building; to contain theater, offices and lodge hall. (See "Association and Fraternal Buildings.")

Tex., Belton.—A. H. Glasscock, Ballinger, Tex., is considering, it is reported, remodeling building on Main St. as opera-house.

## WAREHOUSES

Fla., Jacksonville.—Wilson & Toomer Co will erect 60-foot extension to warehouse (See "Fertilizer Factories.")

Ga., Macon.—J. F. Heard is interested in erection of cotton warehouse.

Md., Baltimore.—Frederick Bonhage & Co., 603 Water St., purchased site 49x67 feet on Water St., on which to erect warehouse.

Md., Leonardtown.—Matthews-Howard Implement Co. will erect warehouse; 30x60 feet; two stories; cement-block foundation; frame; tin roof; stoves; cost \$2500; plans by R. S. Garner, La Plata, Md.; bids opened May 15.

Tex., San Angelo.—National Biscuit Co., New York, J. E. Walls, local manager, will not erect warehouse; recent report incorrect.

Va., Petersburg.—Straus, Gunst & Co. are having plans prepared for four-story warehouse; depth about 60 feet.

## BUILDING CONTRACTS AWARDED

#### APARTMENT-HOUSES

Md., Baltimore.—Ella E. Ditch awarded contract to W. T. Childs, 16 West 20th St., Baltimore, for addition to residence at 2323 North Charles St. and remodeling as apartment-house; three stories; 25x25 feet; brick; steam heat; cost \$5000.

Md., Baltimore.—The Falconer Company, 5-7 North Gay St., has invited following contractors to bid on erection of proposed warehouse at Gay and Water Sts.: C. L. Stockhausen, National Marine Bank Bldg.; John Hiltz & Sons Company, 3 Clay St.; Edward Brady & Sons, 1109-1113 Cathedral St.; Engineering-Contracting Co., 502 St. Paul St.; J. Henry Miller, 110 Dover St.; J. O. Hederman, 1601 East Lafayette Ave.; Baltimore Ferro-Concrete Co., 16 St. Paul St., all of Baltimore; plans prepared by Parker, Thomas & Rice, 1109 Union Trust Bldg., Baltimore, call for four-story concrete structure, 70x125 feet.

S. C., Greenwood.—J. J. Keller & Co., Rock Hill, S. C., have contract to erect \$12,000 apartment-house.

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Tenn., Chattanooga.—Crown Laundry awarded contract to T. A. Chambers, \$13 Henderson Ave., Chattanooga, for erection of building to contain apartments and laundry. (See "Miscellaneous Enterprises.")

Va., Portsmouth.—V. G. Weaver and W. II.
Baker awarded contract at \$5533 to L. M.
Davis, Norfolk, Va., to erect brick apartment-house. (Recently mentioned.)

# ASSOCIATION AND FRATERNAL BUILDINGS

Ala., Birmingham.—Fraternal Hall Association awarded contract to Carrigan & Lynn, Birmingham, for erection of fraternal hall building: 140x100 feet; four stories; cost 50,000; plans by H. B. Wheelock, Steiner Bank Bldg., Birmingham. (Recently mentioned.)

Tenn., Nashville.—Young Men's Christian Association awarded contracts for association building as follows: To George Moore & Sons, for carpenter work; Foster Herbert Cut Stone Co., cut stone; T. J. Mooney & Co., heating and plumbing; Foy-Proctor Company, concrete construction and cement paving; J. K. Bernal, painting; Fulcher Brick Co., brick work, all of Nashville; will soon award contract for steel work; building will be seven stories; 140x140 feet; cost \$200.000; plans by W. F. Shattuck, 218 La Salle St., Chicago, Ill. (Recently mentioned.)

## BANK AND OFFICE BUILDINGS

Ala., Gadsden.—Southeastern Engineering Co., Chamber of Commerce, Birmingham, Ala., recently noted to receive contract for erection of Etowah County Bank & Savings Co.'s building, is also designer of plans for structure; brick and reinforced concrete; four stories; steam heat; electric lighting; electric elevator; tile floor in banking-rooms; offices on second and third floors; lodgerooms above; J. Wadsworth is president of the bank company.

Fla., West Palm Beach.—G. G. Strohm will expend \$3500 to erect office building; two stories; 20x60 feet; cement blocks; electric lighting; plans by W. W. Maucklin, West Palm Beach; contract recently noted awarded to Grant & Botts, West Palm Beach.

Ga., Atlanta.—A. D. Adair and McCarty Bros. awarded contract to Moise De Leon, Fourth National Bank Bidg., Atlanta, to erect office and store building; eight stories; 50x100 feet; tapestry brick; stone and terracotta trimmings; reinforced concrete construction; steam or vapor heat; electric lighting; electric elevators; cost \$85,000; plans by P. Thornton Marye, Candler Bidg., Atlanta; proposals on mechanical equipment to be addressed to architect; address contractor on other bids. (Recently mentioned.)

Md., Baltimore.—Emerson Drug Co., 308-312 West Lombard St., is proceeding with arrangements for erection of proposed tower building at Lombard and Eutaw Sts.; eight stories; surmounted by 200-foot tower; 355 feet high; plans by Joseph Evans Sperry, Calvert Bidg.; William H. Parker, Clay St., between Charles and Liberty Sts., in charge of construction; both of Baltimore.

Miss., Tutwiler.—H. B. Fitch awarded contract to H. B. Beall, Como, Miss., for erection of office and store building. (See "Miscellaneous Structures.")

Tenn., Nashville.—First Savings Bank & Trust Co., Cole Bidg., 4th Ave. and Union St., awarded contract to E. & N. Manufacturing Co. of Nashville to remodel bankingOIO.

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om; improvements to include marble wainscoting and bronze railing: cost \$20,000.

#### CHURCHES

S. C., Tabernacle. - Methodist Church awarded contract to W. B. Cauthen of Lancaster, S. C., to erect edifice; will require about 20,000 feet of lumber.

Tex., Hutto.-Sweedish Methodist Church awarded contract to Fred Lundree, Taylor, Tex., for erection of edifice recently noted; 50x46 feet; mill construction; acetylene lighting; cost \$4000; plans by O. Anderson, 601 East 15th St., Austin, Tex.

Va., Danville,—Congregation "Actz Chaim" awarded contract to W. A. Gravely of Danville to erect synagogue; plans by Jos. A. Parker of Danville.

## COURTHOUSES

Okla., Altus.—Jackson County Commissioners awarded contract at \$88,900 to Rawles & Balley, Oklahoma City, Okla., to erect court-

#### DWELLINGS

D. C., Washington.—Henry White awarded contract to Nixon Bros. for erection of dwelling at 1625 Belmont St.; three stories; brick and stone; cost \$80,000; plans by John Russell Pope, 527 Fifth Ave., New York.

D. C., Washington.-John P. Sheehan, North Capitol St., awarded contract to R. T Humphreys, 912 H St. N. E., Washington, fo esidence on Park Rd.; cost \$14,000; by Harding & Upman, 729 15th St. N

D. C., Washington. — Mrs. Marlon Green awarded contract to Payne & Dyer for erec-tion of two dwellings at 4638-40 Conduit Rd. W.; two stories; frame; cost \$3500; plans by C. E. Webb, Warder Bldg., Washington.

Fla., St. Petersburg.-F. B. Trotti awarded ontract to George N. Savern, St. Petersburg, for erection of 10-room residence.

for erection of 10-room residence.

Md., Baltimore.—W. T. Ditch awarded contract to W. T. Childs, 16 East 20th St., Baltimore, for erection of addition to dwelling; 25x25 feet; three stories and basement; ordinary construction; steam heat; electric lighting; cost \$5000; plans by John K. Stack, 12 Feet Leytneton, St. Baltimore. 12 East Lexington St., Baltimore,

Md., Baltimore.—Armstrong Thomas, 904
Maryland Trust Bldg., awarded contract to
L. J. Brown, Pimilco Bivd. near Belvidere
Ave., Baltimore, for erection of three dwellings on 25th St.; 14x56 feet; slag roofs; two
stories; brick; cost \$5000; plans by John R.
Forsythe, 232 St. Paul St., Baltimore.

Md., Baltimore.-J. Nicholson awarded contract to J. O. Cundiff, North Ave., near Kel ley Ave., Mt. Washington, Md., for erection of residence at Colonial Park estate; two stories and attic; plans by C. M. Anderson, 324 North Charles St., Baltimore; building to be 30x30 feet; mill construction; steam heat : electric lighting ; cost \$4000. (See "Ma chinery Wanted.")

Md., Baltimore.-Starr M. P. Church, Pop pleton and Lemmon Sts., awarded contract to Fidelity Construction Co., North and Lex-ington Sts., Baltimore, for erection of par-sonage on Garrison Ave., near Pledmont Ave.; two and a half stories; frame; cost

Md., Baltimore.-John Manuel and Jan Md., Baltimore.—John Manuel and James H. Smith have plans by and awarded contract to W. H. Wingate, 69 Holmstead Ave., Baltimore, for erection of dwellings; 75x48 feet; brick with fire walls; furnaces and stoves; gas lighting; cost \$3000.

Md., Loreley.—C. A. Hyde, Boston, Mass., awarded contract for John Sheridan, 99 North Carrollton Ave., Baltimore, for im-provements to residence.

Md., Reisterstown.—Jewish Home for Coumptives, Louis H. Levin, secretary, sumptives, Louis H. Levin, secretary, 411
West Fayette St., Baltimore, Md., awarded
contract to G. W. Tovell, Reisterstown, for
erection of proposed cottage; cost \$10,000;
plans by C. M. Anderson, 314 North Charles St., Baltimore, Md.; construction under su-pervision of H. Friedenwald, 1029 Madison Ave., Baltimore

Md., Chevy Chase. - Dangerfield Parker, The Westmoreland, Washington, D. awarded contract to John Simpson's for erection of residence; cost \$10,000.

Md., Mt. Washington.-J. Nicholson award ed contract to J. O. Condell for erection residence; cost \$4500; plans by C. M. Ande sen, 324 North Charles St., Baltimore, Md.

Mo., St. Louis.--Edward A. Faust awarded contract to Rotterman Building & Contract-ing Co., St. Louis, for erection of residence; ms: frontage, 82 feet; stone and brick; cost \$100,000; plans by and construction un-der supervision of Barnett, Haynes & Bar-nett, St. Louis. N. C., Gastonia.—D. W. Padgett awarded contract to Oakley & Clemmer, Gastonia, for erection of eight-room residence; ordinary construction; electric lighting; cost \$2000; plans by O. Craig, Gastonia; no material

N. C., Gastonia.—R. B. Babington awarded ontract to Oakley & Clemmer, Gastonia, for rection of residence; 12 rooms; brick; cost \$5000 : plans by O. Craig, Gastonia,

C., Mt. Holly .- J. A. Costner will erect c., at. holy,—J. A. Costner will erect residence; 32x42 feet; two stories; ordinary construction; hot-water heat; electric light-ing; cost \$35,000; plans by Hook & Rogers, Charlotte, N. C.; contract awarded to R. F. Rankin, Mt. Holly.

S. C., Lancaster.-W. J. Hammond awarded contract to W. B. Cauthen, Lancaster, for contract to W. B. Correction of residence.

Tenn., Memphis.—J. K. Mitchell awarded contract to D. C. Armstrong, Memphis, for erection of residence; two stories; stone veneer; cost \$6000; servants' house in rear; two stories; frame; cost \$700.

Tenn., Memphis.—W. L. Bryant awarded contract to D. C. Armstrong, Memphis, for erection of residence; two stories; eight rooms; stone veneer; cost \$6000; heating plant to cost \$300; also one-story frame servants' house : cost \$350.

Tenn., Memphis.—George Reid awarded contract to W. R. Gilbert, Memphis, for erection of residence; 12 rooms; two stories; tone veneer; cost \$7000; heating plant, \$450

Tex., Palestine.-A. E. Jackson awarded outract to J. B. Rountree, Palestine, for contract to J. B. Rountree, Palestine, for erection of nine-room two-story dwelling; ordinary construction; cost \$4000.

Tex., Taylor.-First Presbyterian Church awarded contract to Ernest Groba, Taylor, for erection of manse; two stories; eight ooms : cost \$2500.

Va., Norfolk.-C. R. Carver va., Norioik.—C. K. Carver awarded con-tract to William Main, Norfolk, for erection of brick residence; cost \$900.

Va., Norfolk.—F. H. Dobbs awarded con-tract to Dear & Totty, Norfolk, for erection of brick residence; cost \$6500.

Va., Norfolk.-A. R. Snyder awarded of tract to Callis & Thomas, Norfolk, for erec-tion of residence; brick and frame; cost

W. Va., Oak Hill.—E. T. Jones, Charleston, W. Va., awarded contract to W. J. Connell, Huntington, W. Va., for erection of resi-dence; cost \$75,000; cost of heating, \$6000; wiring, \$2000.

## HOTELS

Fla., Seabreeze.—M. L. Wagoner, T. F. Wil-liams, C. M. Carrier and others will erect hotel; coquina rock; fireproof; contain 150 rooms; S. H. Gove of Seabreeze has prepared plans and been awarded contract for erection; E. W. Langworthy, manager of Ridg dood Hotel, Daytona, Fla., will be in charge

Okla., Oklahoma City.—H. C. Finley, Post-ffice Bidg., awarded contract to R. M. Criss-nan, P. O. Box 393, Oklahoma City, for erecman, P. O. Box 388, Okhahoma City, for erection of hotel and store recently noted; 45x17 feet; brick; hot-water heat; cost \$25,609; plans by Wheeler & Walker, Oklahoma City. (See "Machinery Wanted.")

Tenn., Clarksville.—Green & Love awarded contract to W. F. Coulter Mill & Lumber Co., Clarksville, for remodeling hotel recent noted; improvements to include baths, tile oor, steel ceiling in lobby and offices, im-rovement of plumbing system, etc.; cost

## MISCELLANEOUS STRUCTURES

Ala, Birmingham — Store. — James Toole, Montgomery, Ala., awarded contract to H. A. Stockmar, Birmingham, for erection of proposed store and office building; 34x84 feet; white enameled brick; white marble trimmings; plate and prism glass; cement floors; low-pressure steam heat; electric lighting; cost \$30,000; plans by P. J. La Belle, 338 Hood Bidg., Birmingham.

Ala., Birmingham — Hospital.—Dr. E. M. Robinson awarded contract to Theo. Pauli, 500 South 19th St., Birmingham, for erection of hospital; ordinary construction; hot-air heat; gas and electric lighting; cost \$20,000; plans by J. W. McClain, Birmingham, (Reently noted under "Dwellings.")

Ala., Montgomery — Stables. — Grell Bros.
Company awarded contract to Graves &
Estes, Montgomery, for erection of proposed
stables: 80x100 feet; ordinary construction;
cost \$6500; plans by Okel & Cooper, Mont-

Ark., Star City-Jail.-Lincoln County Con missioners awarded contract at \$19,000 to Pauly Jail Building Co., St. Louis, Mo., for erection of jail.

Fla., Kissimmee-Business.-W. C. Bass awarded contract for rebuilding business

building recently burned; one story; 30x40

Atlanta-Business .- J. T. Pendleton Ga.. warded contract to Griffin Contracting Co.
Atlanta, for erection of business building for
Rhodes Millinery Co.; five stories and base
ment; 54x125 feet; reinforced concrete and mill construction; steam heat; electric lights; passenger and freight elevators; automatic sprinkler; cost \$45,000; plans by Wal-ker & Chase, Atlanta.

Ga., Calhoun-Jail.-Gordon County Com missioners awarded contract to Bellonby & Wolcott, Griffin, Ga., for erection of jail; 39.10x50.5x26.6 feet; concrete and stone; electric lights; cost \$15,000; plans by Pauley Jail Building Co., St. Louis, Mo. (Previously mentioned.)

Ga., Vidalia - Store. - W. G. Tho awarded contract to Purnell & Chester, Vi-dalia, for erection of store building recently noted; 20x30 feet; fireproof construction; cost \$2500; plans by E. P. Crutchfield, Vidalia.

La., New Orleans—Store.—La Browne Real-ty Co, awarded contract for erection of store building; two stories; ordinary construc-tion; cost \$15,000; plans by Toledano & Wo-gan, New Orleans.

La., New Orleans-Business.-G. A. West teldt and others awarded contract to Jeffer son Construction Co., St. Louis, for erection of business building; three stories; brick.

La., New Orleans-Store.-Geo, A. Bonnet twarded contract to F. J. Rolland, New Or-eans, for erection of store building recently noted; 27x63 feet; ordinary construction gas and electric lighting; cost \$2450; plans by Chas. Valadic, 924 Bourbon St., New Or

Md., Baltimore-Store,-George E. Buch Md., Baltimore—Store.—George E. Ducu-holz, 321 West Monument St., awarded con-tract to J. J. Moylan, 117 East Centre St., Baltimore, for erection of store at 647 North Eutaw St.; three stories; brick; 17x93 feet; cost \$6000; plans by H. J. Tinley, 314 North Charles St., Baltimore.—Clubhouse.—Baltimore

Md., Baltimore - Clubhouse. - Baltin Athletic Club, 1420-1424 North Charles St. awarded contract to Engineering Contri ing Co., 207 American Bldg., Baltimore, erection of two additional stories; ele tors, fireproof stairways, etc.; cost \$30,000; plans by Clyde N. Friz, 11 East Pleasant St., and E. H. Glidden, Glenn Bldg., both of Bal-timore. (Recently mentioned.)

Md., Lauraville—Fire Station.—Lauraville Volunteer Fire Co. awarded contract to Leonard Dittman & Bro. for erection of engine-house recently noted; 39x46 feet; brick; cost \$3500; plans by Charles Sack, Laura

Miss., Newton-Mercantile.-Eagle & Wis awarded contract to A. L. Myers, Newton, for crection of mercantile building; 50x100 feet : two stories and basement : brick : prob Burt Stuart, Meridian, Miss. (See "Machiery Wanted.")

ery Wanted.")
Miss., Tutwiler—Store and Offices.—H. B
Fitch awarded contract to T. W. Beall Company, Como, Miss., for erection of proposed
store and office building; 50x80 feet; two
stories and basement; two stores on ground
floor; offices and auditorium above; basement to contain barber shop and poolroom;
plans by M. M. Alsop, Ittabena, Miss.

Mo., Jackson-Jail.—Cape Girardeau county awarded contract to Wallace Bros., Jackson, Mo., and to Pauly Jail Building Co., St. Louis. Mo., for erection of jail and jailer's Louis, Mo., for erection of fail and failers dwelling; 41.10x54 feet; figreproof construction; steam heat; electric lighting; cost of dwelling; 41.10x54 feet; fireproof construction and Building Co., 8t. Louis, Mo. (Re-

rauly Jan Bullding Co., St. Louis, Mo. (Recently noted at Cape Girardeau.)

8. C., Rock Hill—Auditorium.—Barber estate awarded contract at \$13,000 to J. J. Keller & Co., Rock Hill, for erection of storand auditorium building; two stories.

S. C., Lexington-Business,-Alfred J. For s. c. Lexington-Dusiness.-Africa 3. Fox nwarded contract to John W. Fry, Lexing-ton, for erection of building; 30x00 feet; or-dinary construction; brick; acetylene-gas lighting; cost \$3000; plans by owner. (Recently incorrectly noted under "Lexington

Okla., Tulsa - Business. - Mayo Furniture Co. awarded contract to Shallenberger Con struction Co. for erection of building; four stories and basement; reinforced concrete 50x140 feet; cost \$55,000.

Tenn., Memphis — Store. — Mrs. William awarded contract to R. F. Creson, Memphis for erection of store; two stories; brick six rooms; cost \$4000.

Tex., Cameron-Store.-D. Monroe awarded Tex., Cameron—store.—D. Monroe awarded contract to Joe Westmoreland, Cameron, for erection of store building recently noted; 30x115 feet; brick; cement floor; steel celling : cost \$4500

Tex. Lockhart-Rusiness -- Masur Bros & Storey have plans by and awarded contract to L. H. Neeb, Lockhart, for erection of business building recently noted; 75x78 feet; brick and glass; electric lighting; cost

Tex., Palestine-Hardware Building.-John Hex., Palestine-Hardware Building.—John II. Silliusan awarded contract to J. B. Rountree, Palestine, for erection of two-story brick business building receatly mentioned; cost complete, \$18,000; electric and gas lighting; freight elevator; plans by James F. Brooks, Palestine.

Tex., Westhoff - Business. - A. T. Teller warded contract for erection of brick busiess building.

Va., Norfolk.—James V. Treby awarded contract to T. D. Murden, Norfolk, for erec-tion of store; brick; cost \$3500.

Va., Danville-Store and Office.-L. Her-man awarded contract to J. T. Wilson & Co., Richmond, Va., for erection of five-story store and office building.

Va., Roanoke - Store - C. E. Steakman va., Roanoke - store, - C. E. Steakhaan awarded contract to R. A. Figgatt, Roanoke, for erection of proposed store building; plate-glass front; metal roof; cost \$5000.

#### SCHOOLS

D. C., Washington.—Army and Navy Pre-paratory School, 401 Connecticut Ave. N. W., awarded contract for erection of additional building at 2973-75 Upton St.; two stories and basement; will also remodel present structure for dormitory; purchased and will remodel building at 4107-09 Connecticut Ave. and erect kitchen in rear. (Noted in March.)

Fla., Jacksonville.—Boylan College awarded contract to W. S. Kadz, Jacksonville, for erection of building; three stories, basement and attic; Jacksonville burned brick; 117xil feet; two sections, divided by large co first floor and connected on two upper fic by plazzas; gas and electric lights; cost ( 900; plans by W. B. Camp, Jacksonville.

Ga., Waycross.—Colored Industrial College, G. P. Washington, chairman building com-mittee, awarded contract to W. L. Davis, Tuskegee, Ala., for erection of college build-ing recently noted; 10 rooms; veneered white brick : cost \$5000.

Md., Roland Park, Station L, Baltimore. Md., Roland Park, Station L. Baltimore.—
Country School for Boys, Charles-Street
Ave. Ext., awarded contract to Edward
Brady & Son, 1109-13 Cathedral St., Baltimore, for erection of administration and dormitory building at Belvidere and Roland
Aves.; 40x300 feet; steam heat; cost \$135,000;
plans by Parker, Thomas & Rice, 1109-11 Calvert Bidg., Baltimore. (Previously mentioned)
Miss. Lambert.—City awarded contract

Miss., Lambert. - City awarded contract or erection of school building recently

for erection of school building recently noted; 55.6x72.6 feet; ordinary construction; hot-water heat; cost \$5000; plans by M. M. Alsop, Ittabena, Miss.
Okla., Blackwell.—Oklahoma State Baptist College, J. H. Moore, president, awarded contract for erection of girls' dormitory and gymnasium buildings; cost \$50,000. (Recently mentioned.) ly mentioned.)

Okla., Cleveland. — Board of Education awarded contract at \$15,500 to Foley & Ellis, Cleveland, for crection of high-school build-ing in Mitscher Heights addition; stone and brick; plans by L. H. Babcock, Bartlesville,

Okla.

Okla., Oklahoma City.—City awarded contract at \$6357 and \$10,925, respectively, to George W. Fletcher, Oklahoma City, for erection of additions to McKibley and Jefferson schools, and at \$13,912 to J. W. Lucas, Oklahoma City, for erection of addition to Riverside school; also awarded contract for experion of heating plants at McKibley and tension of heating plants at McKinley and Jefferson schools at \$3150 and \$4240 to Lewis & Kitchen, Oklahoma City.

Okla., Woodward,-City awarded contract or erection of \$12,000 school. Address The

Tenn., Knoxville. — Knoxville County In-dustrial School awarded contract to Hall Lumber Co., Knoxville, for erection of dor-mitory to replace burned structure; contracts for heating, wiring and plumbing not awarded; cost \$8000; plans by L. C. Waters, Knoxville. (Previously mentioned.)

Va., Cherrydale.—City awarded contract to A J. Simpson, Round Hill, Va., for erection of proposed school; Spanish style; brick and concrete; four rooms; plans by C. M. Robinson, 10th and Main Sts., Richmond, Va.

Va., Danville.—Roanoke College awarded contract to Howard Moss, Newport News, Va., for erection of proposed college building.

Va., Norfolk,-Norfolk County Commissioners awarded contract to Charles F. Harper for erection of proposed school at Prentis

Va., South Norfolk.-Norfolk county award ontract at \$16,900 to Charles F. Harper

for erection of school: at \$1475 to W. G. Mc-Glinley for plumbing, and at \$1825 to Am Heating & Ventilating Co., Richmond for heating. (Recently mentioned.)

#### THEATERS

La., Lake Charles.—J. L. White awarded contract to Delatte & Lagrange, Lake Charles, for brick work for proposed theater; 70x126 feet; fireproof construction; hotwater heat; electric lighting; cost \$25,000; plans by J. C. Carter, Lake Charles.

Md., Baitimore.—Paradise Amusement Co. Eugene Cook, president, 2841 North Calver et., awarded contract to John K. McQuer o Baitimore to erect moving-picture and vaude ville theater on North Ave. near Charles St. two stories; 40x96 feet; brick; cost \$16,000; plans by Francis E. Tormey, 404 Wilson Bldg., Baltimore. (Mentioned in February.)

## WAREHOUSES

Ky., Springfield. — Springfield Loose-leai Tobacco Warchouse Co., recently reported in-corporated with \$12,000 capital stock, has plans by and awarded contract to Frank Springfield, for erection of ware 108x204 feet; wood; metal; brick st \$11,000

Md., Baltimore.—Jacob Siehler, 405 West Barre St., awarded contract to Henry L Maas, 1110-1121 Ensor St., Baltimore, to creet proposed warehouse at 405-411 West Barre St.; three stories; 70x36 feet; brick; cos \$5000 : plans by Edward L. Storch.

W. Va., Charleston .- Armour & Ill., awarded contract to David Dick of Charleston to erect warehouse and st room; reinforced concrete; three stories

## RAILROAD CONSTRUCTION

#### RAILWAYS

Ala., Gadsden.—The Noccalula Railw Light & Power Co., promoted by Harry Rodgers, Loui Hart and others, has be granted a franchise in Gadsden for its li which will run to Lookout Mountain, Alabama City and Attalla.

Ala., Mobile.-An officer of the New Or leans, Mobile & Chicago Railroad denies th leans, Mobile & Chicago Kaliroan denes the report that the company proposes to build terminals in New Orleans or that it has ap-plied for franchise to enter that elty. It has, however, applied to the city of Mobile for extension there, but decision has not yet been given. W. F. Owen is vice-president and general manager at Mobile, Ala.

Ark., Hamburg. - J. M. Parker, general nanager of the Arkausas, Louisiana & Guif manager of the Arkansus, Louisiana & Gulf Railway, is reported as saying that construc-tion will be started within two months on the extension from Hamburg to Mena, Ark., via Pine Bluff; T. G. Cooke is engineer at Hamburg, Ark

Ark., Little Rock.-The St. Louis Mountain & Southern Railway Co., Missour Mountain & Southern Railway Co., Missouri Pacific system, has let contracts for grading for second track between Bald Knob and Mc-Aimont, Ark., to the Walsh Construction Co. of Davenport, Iowa; for similar work be-tween Diaz and White River Bridge, Ark., and between Poplar Bluff and Harveill, Mo., to Ball & Peters of Little Rock, Ark. : trestle-work on all of the foregoing to B & Joseph of Cape Girardeau, Mo. Cont for second track grading on the Miss Pacific Railway between Jefferson City, Mo. nd Cole Junction was let to T. B. Jones & Co. of Louisville, Ky.

Ark., Pocahontas .- An officer of the St Louis & San Francisco Railroad is reported Louis & San Francisco Manroau is reported as saying that a steel drawbridge with chan nel span 280 feet long will be built over the Black River at Pocahontas; estimated cost 00,000. The company's forces will do the ork, which will begin before August. F. S Rice is engineer of bridges at St. Louis, Mo.

Fla., Jacksonville.—The St. Johns River Terminal Co. will build at Jacksonville yard acks at shops, several industrial tracks ad will reconstruct the river-front track B. Munson is president at Macon, Ga.

Pensacola.-The Louisville & Nash Fia., Pensacola.—The Louisville & Ni ville Raliroad, says a dispatch, contemple crecting a union passenger station in Per cola to cost about \$200,000, and options property are being obtained. W. H. Cor enay is chief engineer at Louisville, Ky.

Fla., Pensacola.-The proposition to l Fia., Pensacola.—The proposition to build a railroad from Pensacola to Andalusia, Ala., projected last year by Richard Tillis of Montgomery, Ala., and others has been revived, and it is reported that Messrs. Foshee and McGowan of Brewton and Foshee are interested; also that William Fisher and James Muldon of Pensacola have been accounted to the compact of the comp shee and McGowan of Brewton and Foshee are interested; also that William Fisher and James Muldon of Pensacola have become directors in the company. Under an ordinance passed by the City Council work ter Hess of Elkton, Md.

upon the terminal in Pensacola must begin

Ga., Augusta.-Charter has been granted t Ga., Augusta.—Charter has been granted to the Augusta, Lincolnton & Northern Rail-road, which, as previously reported, pro-poses to build line about 100 miles long from Augusta to Danielsville, Ga. The incorpo-rators are Samuel L. Wilkes and J. C. Groves of Lincolnton, John J. Wilkinson, C. D. Bol ton and Thomas W. Hill of Wilkes, The L. Verdel, W. A. Swift, T. M. Swift, Jr., Z. C. Hayes of Elberton, and E. N. Cob

e.-Reported that Ga., Rome.—Reported that contracts will probably be let this month for the extension of the Rome & Northern Railroad from Gord northeast to Tunnel Hill, 33 miles. II. M. Smith is chief engineer at Rome, Ga.

Smith is chief engineer at Rome, Ga., Savannah. — The Brinson Railway Co. is reported to have begun an extension into its new terminal; also that the proposed extension from Milhaven to Waynesboro, Sparta and Athens, Ga., about 110 miles, will soon be started. S. E. Grimshaw is chief engineer, and George M. Brinson, president of Savingded. at Springfield, Ga.

Ga., Waycross.-The Waycross & Southern Railroad Co., it is reported, is being organ-ized and application will be made for a charter to build a line south and southwest from Waycross; capital \$100,000. Among those Interested are James W. Oakford of Scran-ton, Pa.; Daniel L. Hebard of Piquamius, Mich.; Bryan Cumming of Summerville, G. Chas. S. Hebard of Thomasville, Ga.; F. Space of Forty Fort, Pa.; Walter Briggs Scranton, Pa.; R. R. Hopkins of Brunswi merville Ga Ga.; Stanley Manness, J. M. Hopkins and P. W. Redding of Waycross, Ga.

W. Redding of Wayeross, Ga.

Ga., Wrightsville.—The Wrightsville, Adrain & Lyons Railroad Co. has been chartered to build a line 50 miles long, connecting the three points named in the title. The incorporators are R. M. Garbutt and W. O. Donovan of Toombs county; E. J. Sumner, J. E. Webb, C. B. Salter and R. L. Gillis of Emanticular Theorems of Towns o uel county. The railrond as projected will include two pile bridges, one of 1009 feet and the other 800 feet long. The com-pany is ready to receive bids for construc-tion. T. J. James of Adrain, Ga., is president and W. F. Staten, also of Adrain secretary. A press dispate struction will begin May 9. A press dispatch says that con

Ky., Glasgow. — The Louisville, Lincoln Farm & Mammoth Cave Traction Co., capital \$1,000,000, is reported organized to build its proposed line from Glasgow to Mammoth Cave and to Green River at the head of navigation. New York and Chicago capital is sald to be interested. J. M. Richardson is president; J. A. McDaniels, vice-president; J. Wood, secretary and treasurer; J. Lewis Williams, general counsel.

Ky., Louisville.—An officer of the Baltimore & Ohio Southwestern Railway denies the cress report that the company would spend (300,000 to improve terminal facilities at Louisville

Ky., Webbyille.-A correspondent writes that the extension of the Eastern Kentucky Railway from Webbyille to timber and coal lands in Breathlit county, 69 miles, is as-sured. Preliminary survey under way. S. G. Bates is vice-president and general manager D. Warren and F. W. Fletcher of Toronto Canada, are interested, and that Mr. Gibson of Jackson, Ky., is chief engineer.

La., Myrtistown.—The Southern Lumber Co. says it is building a logging road from Myrtis into timber land; it denies the report that it is building a line to Jefferson, Tex.

Md., Baltimore.—An officer of the Balti-nore & Ohlo Railroad says that the company is not now doing anything toward building n new station on Camden St. This refers to the long-contemplated erection of a new pas senger depot and the conversion of Car Station into a freight terminal.

Md.. Brandywine. — The Manufacturets' Record is informed that the Washington, Potomac & Chesapeake Raliroad is obtaining rights of way for an extension of five miles from Mechanicsville, Md. W. W. Early is general manager at Brandywine, Md., and Henry W. Watson is president, Franklin Bank Bldg., Philadelphia, Pa.

Md., Elkton.—One of the incorporators of he Elkton, Fair Hill & Oxford Electric tailway & Power Co. says that a charter is ret to be obtained from the Pennsylvania Legislature to supplement the charter re cently obtained in Maryland. The line will run from Elkton via Cherry Hill and Fair Hill, Md., and Lewisville, Pa., to Oxford, Pa., through a thickly settled farming coun-

Md., Frederick.-The Frederick Railroad ond., Frederick.—The Frederick Kailroad Co. has authorized a bond issue to provide for the proposed extension from Thurmont to Emmitsburg, Md., and Gettysburg, Pa., about 18 miles. W. S. Taylor is general man-

Raliroad, according to a press dispatch, will double-track its line from Hagerstown to the Potomac River, about 12 miles, besides build-ing a steel bridge at Falling Water. G. C. Koons is engineer at Chambersburg, Pa.

Miss., Newton.-The Newton Northwestern Railroad Co. proposes to build 40 miles of line from Newton to Carthage, Miss., via Conehatta, Sebastopol and Walnut Grove, inconentia, seesstopol and walnut Grove, including three bridges, two of 200 feet each and one of 1500 feet. Country is rolling. D. L. Ragland is the contractor, and bids will be invited in about three months. The officers are D. L. Ragland, president and chief neers are D. L. Ragiand, president and chief engineer; W. A. Brown, general manager and acting vice-president; W. V. Fant, sec-retary and treasurer, all of Newton, Miss. H. C. Majure, also of Newton, and others are likewise interested.

Miss., Summit.—A dispatch says that citi-ens of Summit offer a bonus of \$6000 and one mile right of way for the construction of a motor-car line to Godbold Mineral Wells and McComb City, about four miles.

Mayor may be able to give information.

Mo., Kansas City.-W. B. Strang of the Missouri & Kansas Interurban Railway ! nuoted as saying that options have been ob-tained on a site for a \$2,000,000 union electric interurban railway terminal bewteen Grand Ave. and McGee St. in Kansas City. Thans for the building have been comple The company will be known as the Misse & Kansas Terminal Building Co., and will be president.

Mo., Kansas City.-The Missouri Terminal Co. is reported being organized by Kansas City people to build a four-track railroad m Martin City, immediately south of the from Martin City, immediately south of the city limits, to the proposed new union sta-tion in order to give a shorter terminal route to the Missouri, Kansas & Texas, the Kansas City Southern, the Chicago, Rock Island & Pacific, the St. Louis & San Fran-cisco and the Missouri Pacific railroads. es H. Knapp is the pr

Mo., St. Charles.-Reported that a compan is organized at Middletown, Mo., to build at electric railway from St. Charles northwest to Troy, Olney, Marling, Middletown, Mt Carmel, Laddonia, Mexico, Paris and other oints. C. B. Duncan of Olney, Mo., dent and R. E. Race of Mexico, Mo., vice sident and manager

Mo., St. Louis.-J. D. Houseman is reported have financed construction of the St. Louis County Belt Railroad to run from Jeffers Barracks to Spanish Lake and O'Neil, miles, and is now securing rights of way.

Okla., Okmulgee.—The Okmulgee & Coalton tailroad, according to a letter, is projected by the Okmulgee Chamber of Commerce, the object being to connect with the Mis Oklahoma & Gulf Railway. C. S. Di C. S. Dawley and others are interested, but the orga tion is not perfected. N. D. Boyd is I dent, T. J. Baker vice-president, John A. ford secretary and treasurer.

Okla., Oklahoma City.—An officer of the Frisco system says, regarding the report that new terminals will be built at Oklahoma City, that no work of this character has yet decided upon

Okla., Oklahoma City.-W. M. Whitento manager of the Rock Island system at E Reno, Okla., is reported as saying that the company will build five miles additional of switching tracks at Oklahoma City. J. B Berry is chief engineer at Chicago, III.

Okla., Oklahoma City.—Concerning the port that the Santa Fe system contemplat the building of a new terminal at Oklaho lity, an officer says it has not been definitely ed whether any changes will be made

Okla., Oklahoma City.-The Oklahoma City hamber of Commerce, it is reported, has osed an agreement with the Denver, King-Chamber of Commerce, it is reported, has closed an agreement with the Denver, Kingfisher & Gulf Raliroad Co. to build a line from Oklahoma City northwest to Pledmont, 19 miles, and thence through 11 counties in Oklahoma across the Panhandle of Texas and into New Mexico. The line is to be completed from Oklahoma City to Kingfisher. Okla., by January 1 next, and will be operated by either gasoline cars or steam engines. Okla., by January 1 next, and will be operated by either gasoline cars or steam engines. The officers are J. M. McDonald of Kansas City, president; O. T. Gregory of Buffalo, N. Y., first vice-president; F. C. Muender of Shattuck, Okla., second vice-president; D. K. Cunningham of Kingfisher, Okla., secretary; W. W. Bonson of Dubuque, Iowa, treasurer. The other directors are R. Pappe of Kingfisher and H. W. Selpe of Kiel, Okla. Other stockholders are J. S. E. Washburn of Madison, Wis.; F. G. Maston of Kansas City, and E. H. Helton of Shattuck, Okla. President onald says that construction will begin ediately, and the line will be completed as far as Kingfisher by January 1 next.

Okla., Tulsa.—Steps are being taken to re-vive the plan to build the Kansas City, Tulsa & Southern Railway started about five years ago for a road from Joplin, Mo., to Tulsa, Okmulgee, McAlester and other points in Oklahoma, and thence to Parls, Tex. The officers are: Jay Forsythe, president; W. H. Hendren, chief engineer and general manager; W. A. Cook, treasurer; C. B. Lynch, secretary; H. B. Talley, attorney, all at

ecretary; H. B. Taney, attorney, an at Fulsa, Okla. S. C., Anderson.—The Greenville, Spartan-ourg & Anderson Railway Co. is inviting bids to rebuild the bridge over Cubbard's Creek, between Anderson and Belton. W. J. Thack-ston is president at Anderson, S. C.

S. C., Badham.-The Dorchester Lumber Co. of Badham proposes to build a mile a alroad and is asking bids for construction

S. C., Columbia.-The Columbia & Atlantic Railway & Steamship Co. has applied for a charter and will build a line several miles ng from Columbia to a point on the Congaree River south of the city, with branch lines to warehouses. The incorporators are T. Williams, Edwin S. Williams, John A. Wo ard and G. W. Haltiwanger.

S. C., Greenville.—E. H. McCullough is making a survey for the proposed Greenville & Spartanburg Electric Railway.

S. C., McBee.-The South Carolina & Western Railroad Co, is reported to have begun construction at McBee.

Tenn., Jackson.—A. B. Harris of the Illi-nois Central Railroad and Atwell Thompson, City Engineer, will, according to a dispatch. survey immediately for the proposed elt line.

Tenn., Memphis.-The Southern Railway. it is reported, has purchased a large tract of land from Calhoun Ave. to Broadway Ave., and near South 3d St., to establish new freight yards. W. H. Wells is chief engineer of construction at Washington, D. C.

Tenn., Smithville.-The Tennessee Central. t is reported, contemplates building a branch to Smithville. I. F. Lonnbladh is chief engineer at Nashville, Tenn.

Tex., Abilene.-The Texas Central Railway. ecording to a dispatch, is considering a roposition to build an extension of about 30 miles to Abilene. H. S. McCall is resident engineer at Waco, Tex.

Tex., Asherton.-The Asherton & Gulf Railroad, it is reported, will be extended to Eagle Pass, about 75 miles. Asher Richardson is president and general manager at Asherton,

Tex., Cleburne.-F. G. Pettibone, vice-pre ident of the Gulf, Colorado & Santa Fe Railway, Houston, Tex., is quoted as confirming the report that about \$380,000 will be spent for freight yards in Cleburne and other facilities. F. Merritt is chief engineer at Galveston, Tex.

tion Co. is quoted as saying that a line will be built from Dallas to Waco, Tex., about 90 niles. J. F. Strickland of Dallas is president.

Tex., Greenville.-The Eastern Texas Traction Co. will build 20 miles of line from Wolfe City to Greenville, which will be extended to Bonham and Dallas. Right of way is being secured. Headquarters at Green. will build 20 miles of line from ville. The directors are S. B. Perkins of Greenville, J. H. Blocker of Wolfe City; R. Greenville, J. H. Blocker of Wolfe City; R. N. White, treasurer; Joseph F. Nichols, secretary; J. B. Murphey, general manager; Glen A. Coulson and W. M. McBridge, all of Greenville, Tex.; H. E. Vaughan, J. H. Myrick, H. C. Tittsworth and J. Riley Green, all of Wolfe City, Tex.

Tex., Palacios.-An officer of the Palacios, San Antonio & Pecos Valley Railway is re San Antonio & Pecos Valley Raliway is re-ported as saying that the company will build from Palacios northwest via San Antonio to Pecos, Tex., about 480 miles. Preliminary survey this summer. No contracts yet let. J. T. Pierce is president and H. W. Dean secretary and manager at Palacios, Tex.

Tex., Quanah.-The Quanah, Seymour, Dublin & Rockport Railway Co., which propose in a Rockport Railway Co., which proposes to build about 500 miles of line from Quanah via Seymour, Dublin and Austin to Rockport, Tex., has headquarters at 114 Austin National Bank Bidg., Austin, Tex. About 5 per cent. of the country through which the g; the remainder is level. The directors
e L. E. Walker, president, Marshall, Tex.;
J. Ellers, Austin, Tex.; Harry Koch and Porter A. Whaley of Quanah, Tex.; G. Plants of Seymour, Tex.; M. C. Witcher Witcher of Dublin, Tex.; C. D. Johnson of Rockport, Tex.; H. E. Ford and W. R. Davle of Austin, Tex. The treasurer is H. Pfaefflin and the secretary W. L. Vining.

Tex., San Angelo.—The A. M. Moore Construction Co. of Kansas City, Mo., is reported to have contract for building the Santa Fe branch from San Angelo to Sterling City 47 miles. Work is under way.

Tex., Smithville.-James H. Collins, Tex., Smithville.—James H. Collins, consulting and contracting engineer, 38 La Salle street, Chicago, Ill., says that he will finance and build the Smithville & Aransas Pass Railroad as soon as satisfactory preliminary arrangements are made, which he expects will be accomplished in 30 days.

Tex., Temple.-The Temple Northwestern Tex., Temple.—The Temple Northwestern Railway Co., according to a dispatch, has let contract for bridging to C. G. Patton of Houston, Tex., and for piling to W. D. Parish of Temple, Tex. Already 62 teams are at work between Gatesville and Hamilton, and 52 between Gatesville and Temple

Tex., Temple.-G. S. Vivian of Chicago, rep resenting a syndicate, is reported working on a proposition to build the contemplated interurban electric railway between Temple and Waco, about 30 miles. G. E. Wilcox of Temple or W. L. Prather of Waco, Tex., may give information

W. Va., Clarksburg.—The Clarksburg & Weston Electric Rallway Co. will build 2: miles of line from Clarksburg to Weston, W nilies of line from Clarksburg to Weston, W.
Na., including five bridges. The country is
roling; officers, S. L. Watson, president; C.
W. Watson, vice-president; secretary and
treasurer, Walton Miller; general manager,
James O. Watson; chief engineer, D. D.
Britt, all of Fairmont, W. Va. Date for receiving blus for construction not set celving bids for construction not set.

-Concerning the report that W. Va., Elkins.—Concerning the report that the Coal & Coke Rallway proposes to build an extension from Elkins to Rowlesburg, W. Va., an officer says that a line is being surveyed to determine the cost of construction. Another official is quoted as saying that a branch will be built to connect with the Dry Fork Rallroad at Parsons. A letter to the Manufacturers' Record says that Ashton A. Chapman is engineer of survey for this extension. It is denied that contract has been let to him. The construction contemplated is let to him. The construction contemplated is about 90 miles.

W. Va., Fairmont.-The Fairmont & Northren Traction Co. is building 11½ miles of line from Belleview to Fairview via Paw Paw Creek, including five concrete bridges and two steel bridges. Talbot Bros. of Fairmont are the contractors. The officers are: Presi dent, S. L. Watson; vice-president, C. W. Watson; treasurer and secretary, Walton Miller; general manager, James O. Watson; chief engineer, S. B. Miller, all at Fairmont.

W. Va., Fairmont.-The Fairmont & Clarks burg Traction Co., it is reported, will issue \$400,000 more of preferred stock to finance the proposed extension from Clarksburg to Weston, W. Va., 24 miles. James O. Wats and others of Fairmont are interested.

W. Va., Pemberton.-The Virginian Rail way, according to a press report, will build a line from Pemberton to Beckley, W. Va., about six miles. H. Fernstrom is chief engi-neer at Norfolk, Va.

W. Va., Wellsburg.—The Pennsylvania Raiiroad; it is reported, will build a new bridge over the Bethany turnpike at Wellsburg, besides making improvements to tracks at a cost of about \$15,000. R. Trimble is chief engineer maintenance of way at Pittsburg,

## STREET RAILWAYS

Valdosta.—The Valdosta Street Railway Co. contemplates building an extension of several miles. W. S. West is president and general manager.

Mo., Joplin.—Franchise has been granted to the Joplin & Pitisburg Railroad Co. to build a double-track extension on West 4th St. to Electric Park. R. W. Harris is general manager at Pittsburg, Kans

Tenn., Memphis.—The Memphis Street Railway Co. will build an extension of about 2¼ miles. T. H. Tutwiler is president and gen-

Austin.-C. V. Burkhead of San An tonio, N. A. Dawson and James T. Priest of South Austin and Frank M. Maddox have applied to County Commissi rs for a street rallway franchise in South Austin

Va., Richmond.-The Richmond & Henrico val, incumoud. The hermond a Heinton alilway Co. will build an electric street railway eight miles long. The Burton Construction Co., 9th and Broad Sts., Richmond, Va., 8 the contractor. W. O. Burton is president; T. S. Winston, vice-president; H. D. Eichelberger, secretary and treasurer; L. Hankins,

## MACHINERY, PROPOSALS AND SUPPLIES WANTED

Manufacturers and others in need of machinery or supplies of any kind are requested to consult our advertising columns, and if they cannot find just what they wish, if they will send us particulars as to the kind of machinery or supplies needed we will make their wants known free of cost, and in this way secure the attention of manufacturers and dealers throughout the country. The Manufacturers' Record has received during the week the following par ticulars as to machinery and supplies wanted.

Boats, etc.—Legg Brick Co., Calhoun, Ga., wants to correspond with builders and de-signers of boats and machinery, barges, etc., for river traffic where current is swift and ow; also interested in motor boats

Boiler.-Samuel T. Williams, 223 North Calditimore, Md., wants 100-he (return-tubular or "Econor vert St., Baltim

preferred).

Boilers.—Himalaya Planting & Manufacturing Co., J. G. Martel, president, Tallien,

La., wants prices on 350-horse-power bollers.

Box Machinery. - See "Crate Machinery,

Broom Machinery.—G. W. Koiner, Commis sioner, Department of Agriculture and Im migration, Richmond, Va., wants addresse of manufacturers of broom machinery.

Brick.—Office of Commissioners of the District of Columbia, Washington, D. C. Proposals will be received until May 23 for furposais will be received until may 5 for the hishing District government with the fol-lowing materials during fiscal year beginning July 1, 1910, and ending June 30, 1911: Gran-ite curbing, asphalt paving blocks, repressed vitrified invert sewer bricks, repressed vitri fled paying blocks, red sewer bricks, Portland cement, terra-cotta sewer pipe, miscellaneo castings. Forms of proposal, specificatio and necessary information may be obtain upon application to Property Clerk, D. ( 326 District Bldg.; Cuno H. Rudolph, John A. Johnston, William V. Judson, Commis-

ioners D. C.
Bricks.—A. L. Myers, Newton, Miss., wants
rices on white enameled bricks.

Bridge Construction.—Greenville, Spartan-burg & Anderson Railway, W. J. Thackston, president, Anderson, S. C., invites bids for rebuilding of Cubbard's Creek bridge on interurban railway between Anderson and Bel-ton, S. C.; plans and specifications on file with traction company at Anderson.

with traction company at Anderson.

Bridge Construction.—Bids will be received at office of St. George Richardson, County Engineer, Memphis, Tenn., until May 9 for construction of 60-foot steel span and two 20-foot approach spans over creek at Bartlett, Tenn.; plans and specifications on file at office of County Engineer; T. H. Pearson, bridge superintendent.

Bridge Construction. etc.—Park Commis-

bridge superintendent.
Bridge Construction, etc.—Park Commissioners, R. E. Brownell, chief engineer, Oklahoma City, Okla., will receive bids until May 9 for construction of dam, spillway, corewall and concrete bridge in Northeast Park, plans, specifications and profiles on file in office of chief engineer of board, 301 City Hall; cash or certified check for 3 per cent. mpany each prop sal.

Bridge Construction .- C. G. Reeves, Com troller, Shreveport, La., will receive bids un-til May 10 (deferred date) for construction of steel traffic bridge over Red River as per plans and specifications on file in City Englplans and specimentons on hie in City Engi-neer's office at Shreveport, and of Ira G. Hedrick, 1118 McGee St., Kansas City, Mo.; bids will be received for both entire bridge, including substructure and superstructure, and also for substructure only; each bid for and also for substructure only; each bid for entire structure to be accompanied by certi-fied check for \$5000, and for substructure only by certified check for \$2000; estimated cost of bridge complete, \$300,000; of sub-structure only, \$100,000. Mr. Reeves will fur-nish printed copy of ordinances of Police Jury of Bossier parish and of city of Shreve-

ort governing payment for said bridge. Bridge Piers.—North East Coal Co., Coal Exchange, Wilkes-Barre, Pa., will receive bids until May 15 for construction of four piers aggregating 1150 cubic yards concrete and 2500 feet round piling; plans and specifications may be seen at office of company or at office of J. F. Prindibble, engineer, Paintsual rights reserved.

Broom Machinery .- N. W. Dunn, McKen Va., wants machinery for manufactur Building Materials.—J. O. Cundiff, North Ave., near Kelley Ave., Mt. Washington, Md., wants prices (delivered at building) on Dredge Bucket.—Doullut & Williams, 213 sand, lime, brick and cement.

Building Materials,-D. Rotundo, Kissi mee, Fla., wants prices on brick, roofing, doors and windows.

Building Materials.-R. M. Crissman, P. O. Box 333, Oklahoma City, Okla., wants prices on plumbing, plastering, painting, decorat-ing, steel, plate glass, sash and doors.

Building Materials.-Knights of Pythias. F. J. Schroeder, secretary, Oakland, Md., wants prices on concrete, concrete blocks, stucco work, steel sheathing and electrical

Canal Construction. - Board of Drai Commissioners of State of Florida, J. C. Luning, secretary, State Capitol, Tallahas-see, Fla., will receive bids until June 15 for see, val, will receive side until June is for excavating five drainage canals in the Ever-glades; aggregate length, 235 miles; cou-struction requires excavating of 18,000,000 cubic yards of earth and 6,000,000 cubic yards of rock. Specifications and blank proforms can be obtained by application to office of J. O. Wright, chief drainage engineer, Tallahassee; each bid to be accompanied by certified check for 2 per cent. of amount of proposal, payable to W. V. Knott, State easurer

Cars. Trucks, etc.-Bids will be received at Cars, Trucks, etc.—Bids will be received at office of General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., until May 26 for furnishing hand cars, push cars. warehouse trucks, wheelbarrows, jacks, anvils, vises, forges, etc. Blank and general information relating to circular No. 578 may be obtained at above office or office of assistant purchasing agents, 24 State St., New York; 55 National Realty Bidg., New Orleans; 1086 North Point St., San Francisco, Cal.; also from U. S. Engineer office in fol-Cal.; also from U. S. Engineer office in fol Cal.; Baltimore, Philadelphia, Pittsburg, Boston, Buffalo, Cleveland, Cincinnati, St. Paul, Detroit, Milwaukee, Chicago, St. Louis, Paul, Detroit, Milwaukee, Chicago, St. Louis, Chattanoga, Louisville, Mobile and Galves-ton; Commercial Club, Kansas City; Cham-ber of Commerce, Quincy, Ill., and Chamber of Commerce and Board of Trade, Tacoma, Wash.; F. C. Boggs, Captain, Corps of Engi-neers, U. S. A., General Purchasing Officer.

Cars.-Wrightsville, Adrain & Lyons Railway Co., W. F. Staten, secretary, Adrain, Ga., will want two combined passenger and baggage cars; also two passenger cars.

Cars, etc.—Bids will be received at office of General Purchasing Officer, Isthmian Ca-nal Commission, Washington, D. C., until May 24 for furnishing steel flat cars, steel castings, bronze, muntz metal, rivets, drift-bolts, boat splkes, etc. Blank and general information relating to circular No. 582 may be obtained at above office or office of assistant purchasing agents, 24 State St., New York; 55 National Realty Bidg., New Or leans; 1086 North Point St., San Francisco Cal.; also from U. S. Engineer office in fol lowing cities: Seattle, Wash.; Los Angeles Cal.; Baltimore, Philadelphia, Pittsburg, Boston, Buffalo, Cleveland, Cincinnati, St. Paul, Detroit, Milwaukee, Chicago, St. Louis, Chattanooga, Louisville, Mobile and Galves-ton; Commercial Club, Kansas City; Chamber of Commerce, Quincy, III., and Chamber of Commerce and Board of Trade, Tacoma, Wash.; F. C. Boggs, Captain, Corps of Engi-neers, U. S. A., General Purchasing Officer.

Corner Bars .- See "Glass."

Column Bar.-Grant & Botts, West Palm Beach, Fla., want prices f. o. b. on one nickel-plated column bar.

Cotton-webbing Machinery, etc.-John Man ufacturing Co., Kings Mountain, N. C., wants to correspond with builders of machinery to manufacture cotton webbing and hammocks.

Crate Machinery, etc.—June & Cate, Ham-mond, La., want prices on machinery for manufacturing fruit and vegetable boxes and

Culvert Construction.—City Council, Denison, Tex., will open bids May 7 for construction of culvert with concrete top across Nelson St.; plans and specifications on file in office of J. D. Yocom, City Secretary; work to be under supervision of acting engineer. gineer

Dam Construction.—Wehr, Walden & Duke-hart, 412 Continental Bidg., Baltimore, Md., ready for bids to construct concrete granite dam: 250 feet long: 2000 cubic yards.

Dies.-P. C. Tumlinson, 213 East Houst St., secretary Universal Insect Trap Co., San Antonio. Tex., wants dies for cutting galnized-iron pattern.

Derricks.-Himalaya Planting & Mar turing Co., J. G. Martel, president, Tallien, La., wants prices on cane-hoisting derricks.

Dredge Bucket.—Doullut & Williams, 213 Macheca Bidg., New Orleans, La., wants orangepeel dipper; one yard and one and a quarter yards.

Dredge Bucket.-Hobbs-Ives Equipment & Machinery Co., Seaboard Bank Bidg., Nor folk, Va., in market for second-hand clam shell bucket; sultable for digging sand three-quarter or one-cubic-yard capacity.

Drugs, etc.—W. O. Smith & Co., F, 23, Produce Exchange, New York, wants (for South American firm) catalogues and prices on toilet articles and drugs.

Dump Cart.—Taylorsville Cotton Mill Co., Taylorsville, N. C., wants contractor's iron-body dump cart, two wheels, to hold one cubic yard earth or one ton coal.

Electrical Equipment. - Wm. C. Ritter. Newport News, Va., wants prices on 10 to 20-horse-power motor and electric pump.

Electric-lighting System .- Office Construct-Ing Quartermaster, Fort Crockett, Galveston, Tex. Proposals will be received until May 31 for construction of electric-lighting system; information upon application; P. worth, Captain and Quartermaster, I Whit. II. S. A.

worth, Captain and Quartermaster, U. S. A. Electrical Machinery.—Samuel T. Williams, 223 North Calvert St., Baltimore, Md., wants generator; about 50-kilowatt, 125-volt, to run at 280 to 300 R. P. M.; for direct connection

o engine.

Electrical Machinery.—Doe River Lighting
Power Co., J. H. Grayson, general man-ger, Elizabethton, Tenn., in market for two 1000-kilowatt generators, each three-phase, 60 cycles, 2390 volts; three transformers to carry one of these units and step current up from 2390 to either 22,000 or 33,000 volts; three transformers to step this voltage back to 2300 volts; switchboards with all instru-ments, copper wire and all line material for 22 miles of transmission line of high volt age; three units of turbines to be operated under 50-foot head and develop 1200 horse-power to each unit; two governors to conpower to each unit; two governors to con-trol speed regulations; bidders on hydro-plant expected to have representatives in-spect property not later than May 15 and submit proposals not later than June 1; electrical proposition will be taken up as soon as speed of water-wheels is fully de-termined. termined.

Electrical Equipment. — Burton Construc-tion Co., 9th and Broad Sts., Richmond, Va., vants prices on electrical equipment, poles

Electrical Machinery.—Samuel T. Williams, 223 North Calvert St., Baltimore, Md., wants two belted electric generators, 229 volts, di-rect current; 50 to 75-kilowatt direct-con-nected set, 125 volts; one for 220 volts; also several 15-horse-power motors, 110 volts, direct current.

Engines.—Samuel T. Williams, 223 North Calvert St., Baltimore, Md., wants two Cor-liss engines, 75 to 125 horse-power each.

Engine.-Kershaw Oil Mill, Kershaw, S. C. vants second-hand Corliss engine, size 18x42; give description, price, etc.

Farm Implements.—H. T. Chandler, 800 21st St. N. W., Washington, D. C., wants to correspond with manufacturers of farm im-

Fire Protection.-See "Water Syste

Floor-tile Machinery.—W. O. Smith & Co., F. 23, Produce Exchange, New York, wants (for South American firm) catalogues and prices on machines for making floor tiles.

Gasoline Engine.—John G. Duncan Com-pany, Box 265, Knoxville, Tenn., wants prices n 50 to 60-horse-power gasoline engines; sta tionary type; weight about 8000 pounds

Gasoline Engine.-See "Sawmills.

Glass, etc.—A. L. Myers, Newton, Miss., wants prices on plate and coppered prism glass; also Thorne "Holdfast" corner bars for plate glass.

Gravel.-A. L. Myers, Newton, Mlss., wants prices on gravel for concrete and roof

Heater.—Wm. C. Ritter, Newport News, Va., wants prices on hot-water heater.

Heating and Ventilating.—John H. Disque, chairman Board of Education, Gadsden, Ala., wants prices on steam or air heating with suction ventilator device.

Heating Plants.—Utley & Utley, 323½ Cherry St., Helena, Ark., want bids on heating for 30-room apartment-house; also for two dwellee "Apartment-he

Heating Plant.-Board of Education, W. J. Hamlett, president, Milford, Tex., wants prices on engine and equipment for hot-air heating plant for 11-room school.

Heating Plant.—Knights of Pythias, F. J. Desks, etc.-City, E. M. Cook, Mayor, Haz- prices on heating plant,

Heating Systems.-Wm. C. Ritter, Newport News, Va., wants prices on steam of not-water systems for three buildings, including radiators, pipes, etc.

Hospital Equipment. — Henry E. Bonitz, Vilmington, N. C., wants catalogues and Wilmington, N. prices on hospital equipment.

Housefurnishings.—Biddle Bros., 110 Vinc Ave. east, Knoxville, Tenn., wants dealers' prices on iron beds, tin and enamel ware, chairs, etc

Iron Beds. See "Housefurnishings

Iron and Steel. — A. I. Myers, Newton Miss., wants prices on cast iron and steel.

Lathe.—D. W. Martin, Florence, S. C., vants prices on engine lathe, 12-inch swing, 6-foot bed.

Laundry Machinery.-Wm. C. Ritter, New port News, Va., wants prices on la machinery.

Lighting Fixtures.-B. W. Blake, Profes sional Bldg., Baltimore, Md., wants price on gas and electrical fixtures.

Locomotive. - Kentucky River Hardwood Co., Jackson, Ky., wants second-hand Clima-logging engine for 35-pound steel rail, 42-incl gauge; horizontal boiler, double-geared, 15 to 20-ton, good condition, complete with tools ond-hand Climax must know number of years in use and other particulars.

Locomotives.-Wrightsville, Adrain & Lyo Railway Co., W. T. Staten, secretary, Adrain Ga. will want two locomotives

Machine Tools,-See "Tools,"

Machine Tools.-Biloxi Machine Works, 448 elauney St., Biloxi, Miss., wants prices x14 lathe; also radial drill and planer, Malleable Iron.—See "Truck Farts."

Metal Ceiling.—A. L. Myers, Newton, Miss wants prices on metal ceiling. Metal Ceilings.-W. O. Smith & Co., F, 23

Produce Exchange, New York, wants South American firm) catalogues and p Metal-working Machinery.-Adams Wash

M. O. Adams, president, Kansas City will open bids in 30 to 60 days for sheet metal machinery.

Mill Work.—B. W. Blake, Professional Bidg., Baltimore, Md., wants prices on mill work for \$6000 dwelling.

Mining Machinery.-Asher Coal Mining C Wasioto, Ky., opens proposals at once for mining machinery.

Motor Boats. - See "Boats."

Novelty Manufactures. – J. C. Beekman Tarpon Springs, Fla., wants to correspond relative to placing order, on royalty basis, for manufacture of necktie or scarf fastener.

Oil Heaters .- W. O. Smith & Co., F, ce Exchange, New York, wants South American firm) catalogues and prices on kerosene-oil heaters.

Overall Machinery.—R. B. Berkeley f Farmville Herald, Farmville, Va., eley, prices on machinery for overall plant work

Pans.—C. P. De Shazo, No. 1612 North Seventh Ave. Birmingham, Ala., wants to correspond with manufacturers of round-pressed pans to be used in gas or gasoline stove

Paper-tube Machinery.—Cumberland Valley Paper Box Co., Franklin and Jonathan Sts. Hagerstown, Md., wants machinery to manufacture mailing tubes.

Paving.-Bob Parman, City Clerk, ma City, Okla., will receive bids until May 16 for paving Linwood, Classen, Young and Drexel boulevards, 31st, 28th, 29th and other streets; all work, including paving, grading, concrete curb and guttering, oak curbing, etc., to be in accordance with plans and specifications on file in office of City Clerk; each bid to be accompanied by accordance with plans and specifications on file in office of City Clerk; each bid to be accompanied by accordance with plans and specifications. each bid to be accompanied by check for 3 per cent. of same.

Paving.—City Secretary, Waco, Tex., will eccive bids until May 13 for paving Austiu tve, from 8th St. to 18th St.; alley leading rom 3d St. to 4th St., between Austin Ave. and Franklin St., and alley leading from 3d St. to 4th St., between Austin Ave, and Wash-St. to 4th St., between Austin Ave, and Wash-ington St. Bids for pavement on Austin Ave, may be for asphalitic concrete, bitumi-nous macadam, Hassam compressed concrete, bitulithic or vitrified-brick pavement; bids for each alley to be for vitrified brick, but may for each alley to be for vitrified brick, but may be to lay brick either edgewise or flat; bids to be entirely separate; plans and specifications and estimated amounts on file in office of City Engineer; bid for Austin Ave. work to be accompanied by certified check for \$5000, and for alleys by certified check for \$250 : H. R. Mistrot, Mayor,

Paving. - Board of Local Improve Washington, N. C., will open bids May 12 for oving East and West Main and 2d Sts., et and Water Sts. and Union Al., about 6130 linear feet; improvements to include grading, curbs, gutters, bituminous macadan or brick pavement, catch basins and cemen sidewalks ; will also receive bids at sar me for furnishing material necessary; ans, specifications and proposal blanks can obtained at office of D. B. Packard, City Engineer, upon deposit of \$10: each bid to be accompanied by certified check for 5 pe

Paving .- J. B. Winslett, City Secretary Dallas, Tex., will receive bids until May?

for paving Elm St. from Ervay to Market
St.: each bidder to bid separately on followlng materials: Vitrified brick paving blocks. Bols d'Arc blocks, creosoted pine blocks and concrete curbs; specifications on file in offic of City Secretary; certified check, \$1200

Paving. — Depot Quartermaster's Office Vashington, D. C. Proposals will be re Washington, D. C. Proposals will be re-ceived until May 10 for tarvia on roadway in Arlington (Va.) National Cemetery; information furnished on application. Addr Capt. H. L. Pettus, Quartermaster, U. Army, in charge of depot.

Army, in charge or depot.

Paving.—M. L. John, Mayor, Laurinburg,
N. C., will receive bids until May 23 for 2500
square yards of concrete sidewalk paving,
with curb and gutters; plans and specificasquare yards of concrete sidewalk paving, with curb and gutters; plans and specifications prepared by F. F. Wetmore, engineer, Laurinburg, on file in office of Mayor and of City Clerk; plans furnished upon deposit of certified check to accomi oany bids, 5 pe nt of bld.

Paving.—E. A. Kingsley, engineer for dis-trict, Little Rock, Ark., will receive bids un-til May 14 for paving West 6th and Victory Sts. with asphalt; plans and specifications on file with Mr. Kingsley; certified check,

-J. B. Winslett, City Dallas, Tex., will receive bids until May 9 for paving Commerce St. from Harwood St. to
H. & T. C. Italiway; each bidder to bid separately on following materials: Asphaltic
concrete paving, bitulithic, rock asphalt,
vitrified brick or block, creosoted wooden locks, concrete curb and concrete gutter: pecifications on file in office of City Secreary; certified check for \$750 to accompan

Pianer.—Samuel T. Williams, 223 North Cal-ert St., Baltimore, Md., wants machinists' daner to take about 60 inches between hous-

Polishes, etc.—W. O. Smith & Co., F. 23. Produce Exchange, New York, wants (for South American firm) samples and prices on metal and shoe polishes; also on cleaning stuffs.

-Eee "Electrical Equipment. Pump.igs; to plane not over 10 feet long.

Rails .- Board of Control, W. president, Baton Rouge, La., will open bids May 15 for two ane one-half or three miles of relaying or new American steel rails, 35 or 40 pounds, f. o. b. cars Angola, La.

Rails,--J. A. Duke, Fair Bluff, N. C., tons second-hand 20-pound railroad iron Railroad Equipment, etc.—Himalaya Plant-ng & Manufacturing Co., J. G. Martel, president, Tallien, La., wants prices on railroad equipment, etc.

Railroad Ties .- Bids will be received at ffice of General Purchasing Officer, Isthmian once of General Purchasing Omeer, Istiminan Canal Commission, Washington, D. C., until May 28 for furnishing cross and switch ties, annual estimate for year ending June 30, 1911. Blanks and general information relat-ing to Circular No. 579 may be obtained at above office or office of assistant purchasing agents, 24 State St., New York; 55 National Realty Bidg., New Orleans; 1086 North Point St., San Francisco, Cal.; also from U. S. Engineer office in following cities: Seattle, Wash.; Los Angeles, Cal.; Baltimore, Phila Wash.; Los Angeles, Cal.; Baltimore, Phila-delphia, Pittsburg, Boston, Buffalo, Cleve-land, Cincinnati, St. Faul, Detroit, Milwau-kee, Chicago, St. Louis, Chattanooga, Louis-ville, Mobile and Galveston; Commercial Club, Kansas City; Chamber of Commerce, Quincy, Ill., and Chamber of Commerce and Board of Trade, Tacoma, Wash.; F. C. Boggs, Captain, Corps of Engineers, U. S. A., Gen-eral Purchasing Officer.

Refrigerating Machinery.-T. H. Beals, Jud-onia, Ark., will want small refrigerating nachine.

Reinforcing Wire.—W. O. Smith & Co., F, 23, Produce Exchange, New York, wants (for South American firm) prices on reinforcing wire for concrete buildings.

Reservoir Construction.-Bids will eived by trustees for water-works and im ceived by trustees for water-works and in-provement bonds, W. M. Bostwick, Jr., chair-man, Jacksonville, Ela., until June 6 for building 3,000,000-gallon covered reinforced concrete reservoir on water-works ground; for plans, specifications or other information apply to R. N. Ellis, C.E., superintendent; certified check for \$500 to accompany each bid; in addition to bid according to plaus

and specifications furnished, board will conbids submitted with full set of draw ings and specifications as alternative bid.

Road Construction .- John B. Ashe. County Auditor, Houston, Tex., will receive nutil May 13 for paving four miles of Lynch burg and Crosby Rd. and remainder of Sea brook Rd.; plans and specifications on file with County Engineer.

Road Construction.—Executive committee (representing Starkville, Miss., Agricultural College and Oktibbeha county) will receive College and Oktionena county) will receive bids at office of president of Agricultural and Mechanical College, Agricultural College, Miss., until May 17 for construction of 1½ miles of macadam road from Starkville to Agricultural College; road is to be covered with broken stone 6 inches deep and 24 feet with rosen stone's inches deep and 24 to wide; certified check for \$250 to accompa each bid. For information or specification ddress D. W. Brown, professor civil en deering, Agricultural College, Miss. or civil engi

Road Construction.—John M. Murch, County auditor, Galveston, Tex., will receive bids Auditor, Galveston, Tex., will receive blds until May 16 for ditching, grading, culvert and surfacing and paving with rock, gravel or mudshell or combination of either county road along G., H. & H. R. R., beginning at Harris county line near League City and extending through League City, Dickinson and Lamarque to Texas City Junction, dis tance of about 16 miles; also same work on road along Santa Fe Railroad, beginning at Brazoria county line near Algoa and ex-tending to Highland Bayou, through Algoa, Arcadia, Alfa Loma and Hitchcock, distance of about 18 miles; all in accordance with plans and specifications on file in County Auditor's office, from whom copies can be had on application; proposals to be accom-panied by certified check for 5 per cent. of

Road Construction.—Bids will be received at office of Wm. M. Murrell, Commonwealth's Attorney, 14 Law Bidg., Lynchburg, Va., un-til May 10 for construction of 1.6 miles of macadam road on extension of Campbell Ave. toward Campbell, Va.; plans and specifications may be seen at office of John T. Mc Rations may be seen at once of John Y. Mc Kinney Construction Co., National Exchange Bank Bidg., Lynchburg, or of State Highway Commissioner, P. St. J. Wilson, Richmond, Va.; certified check for \$50 to accompany each bid : specifications will be furnished or application to State highway commis proposals to be addressed to John T. McKinney, 14 Law Bldg., Lynchburg, Va.

Road Construction.—Caroline County Comnissioners, J. L. Dukes, clerk, Denton, Md. will open bids May 10 for grading and mac-adamizing .61 miles of road on Bridge St. in Federalsburg, Md.; proposals to be forms furnished by State Geological amission, to be obtained through its office in Baltimore, Md.: certified check, \$200.

Road Construction.-Proposals will be re ceived by Board of Public Roads of Spotsylvania County at the office of Business Men's Association, Fredericksburg, Va., until May 18 for construction of 14 miles of gravel oad in Chancellor district, 19 miles of gravel road in Chancellor district, 19 miles of gravel road in Courtland district and three-quarters of a mile of macadam road in Courtland district; plans and specifications on file at office of P. St. J. Wilson, State Highway Commissioner, Richmond, Va.; of Clerk of Spotsylvania County, Spotsylvania, Va.; M. B. Rowe, Fredericksburg, Va.; specifications furnished on application to P. St. J. Wilson; certified check for \$250 to accompany each certified check for \$250 to accompany each bid; engineer will be at Spotsylvania May 10 to go over work with prospective bidders: address bids to Board of Public Roads, care M. B. Rowe, Fredericksburg, Va.

Road Machinery.—H. T. Chandler, 800 21st St. N. W., Washington, D. C., wants to cor-respond with manufacturers of road machin-

hurst, Miss., will receive bids present building.

Safe, etc.-Citizens' Bank, E. N. Roth, president, Thibodaux, La., wants prices on afe, vault, bank fixtures, etc.

, Safe, etc.-R. E. Graham, president Farm ers' Exchange Bank, Stills ore, Ga., wants ices on safe and bank fixtures.

Saw.-T. V. Cashen Lumber Co., Jackson-ville, Fla., wants slab resaw; band or circular (circular preferred).

Sawmills.-Lake Land & Lumber Co., Jame H. Williams, manager, Monroe, N. C., wants prices on sawmills, planing mills and gaso line engine for plant at Leesburg, Fla.

Sewer Construction.-Bob Parman, City Clerk, Oklahoma City, Okla., will open bid May 9 for construction of various sewers, in cluding lateral sewer in Central Park, Ross Mann, Grand View and Central Northwest additions; extension of Walker Ave. sewer, main storm sewer on Francis and McKinley Aves., etc.; plans and specifications on file with City Clerk.

Sewers.-Board of Public Improvements Maxine Reber, president, Room 300 New City Hall, St. Louis, Mo., opens bids May 17 for construction of Baden public sewer, includ ing reinforced concrete open sewer 475 feet long, reinforced concrete closed sewer 250 feet long, closed brick sewer 89 feet long, closed brick sewer 89 feet long, closed reinforced concrete sewer 1545 feet long, with junctions, manholes, etc.; deposit required, \$6625. Opens bids May 24 for South Harlem joint district sewer, including rein forced concrete sewer 61 feet long, reinforced concrete sewer 648 feet long, with junctions, manholes, etc.; deposit required, \$5746.

Opens bids May 31 for constructing South Harlem joint district sewer, including reinforced concrete sewer 2919 feet long, forced concrete sewer 4031 feet long, h reinforced concrete sewer 4031 feet long, branch brick sewer 1043 feet long, branch brick sewer 100 feet long, with junctions, manholes, etc.; deposit required, \$5529. Blank forms fur-nished for proposals. Plans, specifications and forms of contract on view at office of board and of Sewer Commissioner; copy of plans and specifications furnished on deposit of 550. f \$50.

Sheet-metal Stampings.-See "Novelty Man-

Sheet-iron Manufactures.—P. C. Tumliuson, secretary Universal Insect Trap Co., 213 East Houston St., San Antonio, Tex., wants to correspond relative to placing order for manufacture of trap for boll weevil, etc.; trap four feet high; lamp attraction.

Steel Beams.—Grant & Botts, West Palm Beach, Fla., want prices f. o. b. on I beams,

Steel .- See "Building Materials."

Steel Tanks.-Proposals will be received at the Bureau of Yards and Docks, Navy De partment, Washington, D. C., until June 4 for steel fuel-oil and gasoline storage tanks at naval stations on U. S. naval property at Bradford, R. I.; Norfolk, Va.; Charleston, S. C.; Key West, Fla.; Guantanamo, Cuba, and San Juan, P. R. Plans and specifications can be obtained on application to Bureau; R. C. Hollyday, chief of Bureau.

Sugar Machinery.—Himalaya Planting & Manufacturing Co., J. G. Martel, president, Tallien, La., wants prices on crusher and larger double effects.

-Reynoldsville Silica Co., Reynolds ille, Ill., A. A. Lowry, manager, wants sec-nd-hand tank for storage of fuel oil; 10,000 er 12.000 gallons capacity.

Tank .- Wm. C. Ritter, Newport News, Va., ants prices on 1000-gallon galvanized tank Tents.—W. O. Smith & Co., F. 23, Produce Exchange, New York, wants (for South American firm) catalogues and prices on portable canvas houses for use as army hos nitals.

Tin and Enamel Ware.-See "Ho

Tiling .- A. L. Myers, Newton, Miss., prices on vitreous tile for floors and tile let-

Traction Engines .- J. E. Craddock, Minne ola, Fla., wants information and prices on traction engines for logging.

Tools.-New Era Gas Engine Co., Dayton wants catalogues and prices on small ols and appliances for gas-engine works.

Truck Parts.-A. G. Stopple, 135 Ross Ave., Dallas, Tex., wants to correspond with ufacturers of heavy wheels, axles, sp malleables, etc., for assembling heavy nd with man r freight transfer trucks.

Tramway.-T. A. Dillon, Tuscarora, N. C., wants to correspond with parties having railway to lease for tramway purposes.

Veneer Machinery, etc. - Norfolk Wood-working Co., Box 365, Norfolk, Va., wauts second-hand machinery for manufacture of neer board and basket stock.

Water System. - McEwen Lumber Asheville, N. C., wants catalogues, prices, etc., on 50 to 75-foot tower for fire protection; also on pipe, hydrants and hose. Asheville.

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The character was dear and ers, chiral hole

Waterproofing. - Sealed proposals will be Waterproofing. — Sealed proposals will be received at office of City Clerk, Asheville, N. C., until May 13 for waterproofing 5,000,000-gallon concrete reservoir built by Faragher Engineering Co.; right to reject bids reserved; for full information apply to B. M. Lee, City Engineer.

Water-works.-City of Alpine, Tex., will open bids about June 28 on pump and engine to pump water up incline about 400 yards; also wants quotations on pipe. Address J. H. Derrick.

Water-wheels.—See "Electrical Machinery item of Doe River Lighting & Power Co.

Wheels .- See "Truck Parts."

Whip Machinery, etc.-Dixle Stock Powder Chemical Co., 1 Hill St., Atlanta, Ga.,

wants information on material, including covering, for manufacturing whips; also prices on machinery.

Woodworking Machinery.-See "Vencer Ma

Woodworking Machinery.—Adams Washer Co., M. O. Adams, president, Kansas City, Mo., will open bids in 30 to 60 days for wood-working machinery.

chinery, etc.

Woodworking Machinery.—J. P. Fort Lumber Co., Morristown, Tenn., wants prices on mortise, boring and binding machinery, etc.

Woodworking Machinery.—Cumberland Valley Paper Box Co., Franklin and Jonathan Sts., Hagerstown, Md., wants machinery to make slik ribbon blocks.

## INDUSTRIAL NEWS OF INTEREST

American Hoist & Derrick Co.

The American Hoist & Derrick Co. of St. Paul, Minn., announces that its new address at Chicago is 713 Fisher Bldg., northwest corner of Van Buren and Dearborn Sts.

## Cooksey & Maxwell, Architects.

Frank W. Cooksey and Fred B. Maxwell have associated for the practice of archi-tecture. Their firm name is Cooksey & Maxwell, with offices at 507 and 508 Forsyth Theater Bldg., Atlanta, Ga.

# Holophane Co.'s Architectural De-partment.

The Holophane Company, 227 Fulton St., New York, announces that its architectural department has been changed to 36 West 39th St., in that city. A. J. Marshall is manager of this department.

## Will Use Gabriel Reinforcement.

The reinforcing steel required for the Capitol Hill School, to be erected at Oklahoma City, will be furnished by the Gabriel Concrete Reinforcement Co. of Detroit, Mich. B. Barrett, engineer, handles this company's products at Oklahoma City, his offices being in the Campbell Bidg.

## Crozer-Pocahontas Coal in England

Arrangements have been completed by the Arrangements have been completed by the Crozer-Pocahontas Company whereby D Flack & Sons, London, England, are made general foreign agents for its bunker and cargo coal. The Crozer-Pocahontas Comcargo coal. The Crozer-Pocahontas Com-pany is the selling organization for the vari-ous coal-mining companies in the Pocahon-tas field controlled by the Croxer interests.

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## To Destroy Boll-Weevils.

The Universal Insect Trap Co. has been organized with a capital stock of \$100,000 and has offices at 213 East Houston St., San Antonio, Tex. P. C. Tumilnson is secretary of the company, and states it will manufacture a trap for the destruction of boll-weevile and other insects that prey on cotton. This trap will be about four feet high and have lamp-light attachment.

## Establishes Storeroom in St. Louis.

Owing to the increasing use of electrical vehicles in the Central West, and therefore an increasing demand for "Exide" batteries and renewals, the Electric Storage Battery and renewals, the Electric Storage Battery Co., Allegheny Ave. and 19th St., Philadel-phia, has found it necessary to establish a storeroom for "Exide" material at 16th and Pine Sts., St. Louis. These increased facili-ties will doubties be appreciated by users of "Exide" batteries in this territory.

## To Inspect New Plant.

Invitations were recently extended to friends and patrons of the Triumph Electric Co. and the Triumph Ice Machine Co. of Cinchanati, O., to attend the inspection of the companies' new Oakley plant on April 30. This inspection was participated in by the Business Men's Club, Chamber of Commerce, Manufacturers' Club, Clacinnati In-dustrial Bureau and the Cincinnati Metal Trades Association.

## "New Era" Auto-Cycle Department.

The New Era Gas Engine Co. of Dayton, has sold its auto-cycle department and this department's entire plant and equip-ment, except such tools, appliances, pat-terns, etc., only adapted to the gas-engine plant. The company has interested a large amount of new capital, and is planning to equip a new factory for the exclusive manu-facture of its well-known "New Era" gas and gasoline engines. Catalogues and prices are wanted on all sorts of small tools and appliances

## Indianapolis Machinery Exchange.

Indianapolis Machinery Exchange.

The Indianapolis (Ind.) Machinery Exchange has reorganized and elected A. L. French, president; William Vesey, vice-president; S. P. Grey, secretary-treasurer, and Wm. S. Bunnell, manager. This company deals in engines, boilers, pumps, ironworking and woodworking machinery, pulleys, hangers, shafting, etc. It overhauls all the machinery offered and when precessary rebuilds.

company reports an increasing trade, April having been its busiest month.

## G. B. Hartley, Engineer.

Announcement is made that F. W. Gerchow of Hartley & Gerchow, civil and mining engi-neers, Morgantown, W. Va., has withdrawn neers, Morgantown, W. Va., has withdrawn from the firm to accept a position as chief engineer for the Hutchinson Coal Co., Fairmont, W. Va. G. B. Hartiey will continue in his profession, still retaining Col. Everhart Bierer as consulting engineer. Mr. Hartiey makes a specialty of installing coal and coke plants and has recently secured larger offices preparatory to extending his practice.

#### A Cuban Order for Sewer Pipe.

It is announced that a sewerage and paving contract recently awarded for the city of Havana, Cuba, was awarded on the use of the Meriwether system of reinforced concrete sever pipe. This product is manufactured by the Lock Joint Pipe Co., 165 Broadway, New York, and approximately 200,000 feet of pipe will be used in sizes from 35 inches to 84 inches. The Cuban Engineering & Contracting Co., 17 West 42d 8t., New York, and approximately 200,000 York, was awarded the contract to construct

#### Ray D. Lillibridge, Incorporated.

Ray D. Lillibridge, Inc., advertising representative, announces removal to the four offices comprising the "Tower Suite" of the Chatham National Bank Bidg., at 192 Brondway, New York, the most convenient entrance being at No. 11 John St. In these offices the company is able to combine with its general office the branch establishment maintained for eight years at No. 79 Nassau St. Messrs. Ray D. Lillibridge and William L. Rickard comprise this corporation.

# Extablishes Southern Supply De-partment.

The Gallon Iron Works Co., manufactures of culvert pipe, road machinery, contractors and roadmakers' supplies, etc., has recently established a branch office and supply de-partment at 102 South 18th St., Birmingham, partment at 102 South 18th St., Birmingham, Aia. This company aiready supplies a large Southern trade, and the establishment of a Southern branch to carry a complete stock was made necessary by the increasing demand for its products. The Birmingham office is in charge of B. E. Pool, who is an experienced civil engineer and thoroughly familiar with road building and road-building machinery. The main office of the company is at Galion, O. ing machinery. The pany is at Galion, O.

## Export Sales Increasing.

Export Sales Increasing.

Among American manufacturers whose products have become well-known in foreign countries, as is indicated by a steadily increasing export demand, is the American Pulley Co., 4200 Wissahickon Ave., Philadelphia. This company states that it is preparing to ship 150 pulleys to the Philippine Islands, and has received orders for shipments to Egypt, Australia, India and other countries. Its domestic trade is also increasing satisfactorily, and there are few important centers in this country where its products are not in use. The company manufactures wrought steel belt and sash pulleys, pressed steel shapes, etc., which are illuspressed steel shapes, etc., which are illus-trated and described in a catalogue which it

## A Quarter-Century Club.

A quarter-century club, the membership of which is limited to men who have been active factory workers for 25 years, is an organization existing at the plant of the Dodge Manufacturing Co., Mishawaka, Ind. The club is one year old and as full of life as the Dodge club, made up of all employes. In the Dodge club, made up of all employes. In the days when this widely-known engineering days when this widely-known engineering company was struggling to introduce its split wood pulley, regular paydays were few and fur between. The men had faith, however, and remained with the company. Twenty-five years ago there were 116 on the Twenty-nee years ago there were 116 on the pay roll; one year later this was reduced to 51. Fourteen of these have died "in the harness" and 27 are still "on the job." W. B. Hosford, the first vice-president, has spent cellinery offered, and when necessary rebuilds in its own shops. Among its specialties are hollow-blast grate bars and a steel fan. The ent position by merit alone. Charles Endlich, secretary and treasurer, and W. J. Chesbro, superintendent of the wood shops, are also pioneers in service. The Quarter-Ceu-tury Club meets occasionally to consider old times, but the membership is not bound by any rules.

#### Increasing Its Facilities.

Anticipating an increased demand for its products, the Lombard Iron Works & Supply products, the Lombard Iron Works & Supply Co., Augusta, Ga., has recently completed a two-story addition to its mill-supply department, 40x60 feet. The company has also installed new lathes and gear cutters in its machine shop, and is at present operating with 200 workmen in its foundry, machine and boiler plants. Its products include engines and boilers, oil and ice machinery, supplies and repairs, shafting, pulleys, hangers, leather and rubber belting, hose, mill supplies, tools, etc. It is also agent for the Atlas and Erie engines, Ashworth cards, Korting and Leader injectors, turbine and water-wheels, etc.

## Receiving Important Contracts.

Receiving Important Contracts.

Important contracts which have recently been awarded the Roanoke Iron Works, Inc., founder and machinist, Roanoke, Va., attest the popularity of and growing demand for this company's products. Within the past two weeks the company has booked contracts to supply all iron and steel work for a roundhouse at Victoria, Va.; power plant at Roanoke; large hotel; large bank building at Princeton, W. Va., and for other construction. In addition it has much profitable work for its machine shop, foundry, pattern and blacksmith departments. Its products include iron, steel, tool steel, steel castings, hangers, shafting, pulleys, machinery suphangers, shafting, pulleys, machinery sup

#### York Ice Machinery Sales.

Many ice and refrigerating machinery sale Many ice and refrigerating machinery sales have been effected by the York (Pa.) Manufacturing Co. since its report of February 23. They include shipments of ice-plant and cold-storage machinery and supplies to all parts of the country, among these shipments beling a 160-ton refrigerating machine in New York city; a 175-ton refrigerating machine for a brewery at Covington, Ky.; a 15-ton plate-ice plant driven by Westinghouse gas producer and engine at Woods Hole. Mass.; producer and engine at woods into, Mass., 20-ton refrigerating plant for the Macon branch of Swift & Co. of Chicago; 100-ton compression side for the Mathieson Alkali Works at Saltville, Va.; 20-ton compression side and 6-ton freezing and distilling system at Tiptonville, Tenn.; 25-ton ice plant at Aransas Pass, Tex., etc.

## Iugersoll-Rand Compressors

Mason & Hanger, contractors for one of the siphon tunnels on the New York water-supply extension, are installing in their plant at Cornwall, N. Y., two large Ingersolf-Rand Corliss duplex air compressors with a capacity of 5200 cubic feet per minute. These machines have cross-compound Corliss steam cylinders and cross-compound two-stage air cylinders. They are of the enclosed, dustcylinders and cross-compound two-stage air cylinders. They are of the enclosed, dust-proof, flood-lubrication type designed for high-speed operation at air pressure of 80 to 100 pounds. Mason & Hanger have also placed an order for a full equipment of In-gersoil-Rand rock drills, mountings, steels, etc., for their work. The Ingersoil-Rand Company of New York manufactures the machinery mentioned. nachinery mention

## Westinghouse Steam Turbines.

The generating equipment of the Leaven-worth (Kans.) Light, Heat & Power Co. is being augmented by the addition of a 500-kilowatt Westinghouse steam turbine driving 2300-volt alternator. Westinghouse turbine is of high-pressure type, taking steam at 150 pounds pressure and exhausting into a Leblanc condenser which maintains a vacuum of 28 inches. The service rendered by the new equipment will be similar to that of the machines already installed, operating in parallel with the present three-phase, 60-cycle, 2300-volt distribution system. The new prime mover was furnished by the Westinghouse Machine Co., East Pittsburg, Pa., through the Railways Equipment Co., Ltd. of the machines already installed, operating

## Sales of Vilter Machinery.

Sales of Vilter Machinery.

The Vilter Manufacturing Co., 832 Clinton St., Milwaukee, Wis., announces the following recent contracts for ice-making and refrigerating equipment: Phoenix Knitting Works, Milwaukee, 18x30-inch Corliss cylinder; Anheuser-Busch Brewing Association, St. Louis, 89-ton block ice plant; Pittsburg Brewing Co., Pittsburg, Pa., 20-ton ice tank and beer cooler; Harlem River Amusement Co., New York city, 15-ton refrigerating machine; Bridgeman-Russell Company, Duluth, Minn., ammonia piping; F. C. Gross & Bros.

Company, Milwaukee, ammonia piping; Jas. R. Hensier Ale Brewing Co., Newark, N. J., brine tank and ammonia piping; Calcasieu Mercantile Co., Lake Charles, La., 11-ton refrigerating plant; Sterling rugerating plant; Sterling Wheelbarrow Co., Milwaukee, 14x30" heavy-duty Corliss engine; Tyler S. Redfield, Green Hill, Greenwich, Conn., can ice-making plant; Horlick's Malted Milk Co., Racline, Wis., vacuum pumps; Jung Brewing Co., Milwaukee, ammonia piping; J. D. Williams & Bros. Company, Scranton, Pa., ammonia compressor.

#### Proper Tunnel Ventilation.

Proper Tunnel Ventilation.

The importance of proper tunnel ventilation cannot be overestimated, and in the construction of the Hudson River tunnels In New York city this feature has been given due consideration. The entire supply and exhaust ventilating equipment for these tunnels were furnished by the American Blower Co., Detroit, Mich., and consist of the following fans: Hoboken Station, two 140-inch "ABC" special steel-plate fans, full housed, with pedestals, and direct connected to 40-horse-power variable-speed motors; two 100-inch "ABC" full-housed steel-plate fans, direct connected to 13-horse-power variable-speed motors are connected to 13-horse-power variable-speed motors. rect connected to 13-horse-power variable rect connected to 13-horse-power variable-speed motors; Fifteenth-Street Station, two 98-inch "ABC" cone fans, with direct-con-nected 33-horse-power variable-speed motors; Morton-street shaft, two 180-inch "ABC" full-housed steel-plate fans, with direct-confull-housed steel-plate fans, with direct-con-nected 55-horse-power variable-speed motors; Hudson-Street Station, two 100-inch "ABC" full-housed steel-plate fans, with direct-con-nected 50-horse-power variable-speed motors, The American Biower Co. manufactures fans, gines, beaters, blowers, drykling driers, special driers, mechanical-draft apparatus, etc.

## Shop Records of Belting

The average factory buys a large amount of belting each year, which is chopped up and put on various machines throughout its plant as belting gives out. Few plants keep any record of the actual length of service of the belts on any particular machine. At the end of a year's time it is not definitely known whether the belt equipment for the various kinds of machinery in the shop has various kinds of machinery in the shop has cost more than it should or not. Factories generally will be interested in a plan of keeping shop records which is offered by the engineers of the New York Leather Belting Co., 51 Beekman street, New York Charts have been printed which can be tacked up on every floor in a factory and, by merely filling in certain blanks, entailing little or no trouble, at the end of the year the exact record of belts on every machine on that floor can be absolutely checked up. In this age of cost-reduction systems, a system of age of cost-reduction systems, a system of "shop belt records" of this sort should be kept. The belt-record charts of the sort de-scribed may be had by applying to the company.

## TRADE LITERATURE.

## Banner Betterness.

"Banner betterness" is a phrase applied to its products by the Banner Electric Co., Youngstown, O. This company manufac-tures the Banner Mazda incandescent lamps, and has issued an attractive namphlet lilus trating and describing them

Handshake No. 16, a publication issued every other month for the mutual benefit of the Genuine Bangor Slate Co., Easton, Pa., and its customers and friends, is now being distributed. This little magazine contains much information useful to those interested fing subjects, together orous reading.

## Radial Trailing Truck.

The American Locomotive Co., 30 Church 8t., New York, is distributing an litustrated pamphiet describing its latest construction of radial truck with outside bearings. This type of truck is particularly applicable to the 462, 262, 282 and other types of locor tives having two trailing wheels and more than four coupled driving wheels.

## Cotton Chats for April.

Cotton Chats, a publication by the Draper Company, Hopedale, Mass., is being circu-lated for April. It is illustrated and pre-sents views of the E model Northrop loom, Northrop side cam pillow tubing loom, model apooler, Moscrop single-thread yarn testing machine and other equipment manufactured by the Draper Company.

## "A Better Cash Received System."

"A Better Cash Received System" is the title of a pamphiet issued by the Burroughs Adding Machine Co., general offices and fac-tory, Detroit, Mich. This publication de-

scribes a method of recording and handling cash receipts, which is claimed to eliminate the necessity of journalizing such items. Necessary forms for the system are illus-trated in the pamphlet, and testimonials nber of users are presented.

## Marine Boiler Works Co.'s Products

An interesting catalogue illustrating and describing the products of the Marine Boiler Works Co., general office and plant 2339-2357 Front St., Toledo, O., fa now being distrib-Front St., Toledo, O., Is now being distrib-uted. This company manufactures bollers of numerous types and other products, in-cluding marine and stationary bollers, pulp digesters, globe and cylindrical rotaries, water jackets, oil stills, agitators and con-densers, steel converters, stacks, tanks, riv-

#### The Hayward Buckets.

y and efficiency, it is ciaimed that the Hayward orange-peel claimshell digging buckets work hard and live long. In all parts of the world these buck ets have been put to severe tests in exca-vating and handling work, and have met the difficulties encountered in an easy and effi-They are manufactured Company, 50 Church St., M Illustrated and described o folder which the company is distributing.

#### Troy Dump Boxes

The Troy dump box is a removable or ortable box for use on ordinary teaming r farm-wagon gears, and are convertible at reasonable expense into a very satisfac at reasonable expense into a very satisfac-tory dumping wagon for sand, gravel, stone, crushed stone, loose earth, cinders, etc. The box is made of hard maple, with No. 10 gauge steel, while the top edges are pro-tected with iron against wear or abrasion by shovels. They are manufactured by the Troy Wagon Works Co., Troy, O., and are illustrated and described in a pamphlet which the company has issued.

## Sturtevant Electric Forge Blower.

The Sturtevant electric forge blower is composed of a pressure fan of the multivane type, enclosed in a pressed steel plate casing, driven by a direct-connected electric motor built to operate from electric-lighting cir As an individual forge blower it is claimed to possess many advantages of larger blowers which are employed for seral forges. It is manufactured by the B. Sturtevant Company, Hyde Park, Mass., and is illustrated and described in bulletin No. which the company has is

## Newton Bolt-Threading Machines.

Illustrating and describing Newton bolt-threading machines and multiplying auto-matic die heads is catalogue No. 46, issued by the Newton Machine Tool Works, 24th and Vine Sts., Philadelphia. Among the prod-ucts filustrated are 2-inch double bolt-thread-the machines. 20 inch blade has cold-awayer. ing machines; 20-inch blade bar cold saw cut ting off machine, designed to operate in ed-tooth blades; 26-inch plain rotary pla machines; milling machines; duplex loco tive rod boring machines and other equip-

## Firebox and Tube Plates.

A catalogue issued by the William H. Wood Locomotive Fire Box and Tube Plate Co., Media, Pa., illustrates and describes a mod-ern type of locomotive firebox and tube plates which this company manufactures. These products are claimed to involve new principles of manufacture, to be scientifically and practically correct, and to add strength in form with increased heating surface. They have been extensively employed, and the booklet contains numerous testime from users attesting their merits. H. A. Gillis of Fowler & Gillis, Home Life Bidg. Washington, D. C., is the Southern representative of the com

## Silent-Running Flexible Gearing

nong Improvements which have tended an "increased production and decreased " is the general application of the motor To obtain the best results claimed that positive transmission is re-quired, and while direct gearing is often used, it is sometimes impossible on account the necessity of fixed centers or other limitations. A chain which may be applied limitations. A chain which may be applied on any convenient center, and with noise-less action, high efficiency and ease of application, is the Morse silent-running high-speed chain. This product is manufactured by the Morse Chain Co., Ithaca, N. Y., and is illustrated and described in general bulletin No. 9 which the company has issued.

## American Fence News.

The evolution of the farm fence might be made the subject of an interesting sketch-from the broken stones and small boulders

which cumbered the pasture or tillable field. the split-rail fence, hedges and other forms of fence, to the ornamental woven-wire fence in various designs and combinations, looking various designs and combinations, looking eard strength, utility and attractiveness In the American Fence News for April much interesting information is presented as to the effectiveness of farm fencing, methods of erectiveness of farm rencing, methods of erecting fences, operating a farm, ornament-ing it, etc. This publication is issued by the American Steel & Wire Co., Chicago, New York and other cities, manufacturer of the American fence for farm and other purp

#### Gas Engines and Producer Plants.

Reliability and efficiency are important points to be considered in the design and enstruction of gas engines. Simple in de construction of gas engines. Simple in de-sign and correctly proportioned, all recipro-cating parts should be properly balanced and not of excessive weight, while the bearing surfaces should be ample and all material entering into the engine construction sho be the best obtainable and adapted to their respective uses. A gas engine which is claimed to fulfill these conditions is the product of the Trenton (N. J.) Malleable Iron Co., New York office, 50 Church St This company manufactures gas engines, producer plants, direct-connected generators, pumps, etc., which are illustrated and described in a catalogue which the company has issued.

#### Simpson Concrete Porch Book.

The first Simpson molds for ornamental concrete work were designed and offered to concrete work were designed and ohered to cement users in 1965 by Joseph Simpson. It 1966 the Simpson Cement Mold Co., 152 Easi Spring St., Columbus, O., was incorporated and since that time it has produced forms for molding many different blocks, with oth ers always in preparation. These molds have been favorably introduced in this country and foreign countries, now being in use in about 1500 cement-block-making plants, from which thousands of Simpson porches have been constructed. They are claimed to be of best quality of iron, fitted and finished in great accuracy, easily operated, strong, d and durable for an unlimited amount work. The Simpson concrete porch No. 2, issued by the company, illustrates and describes these molds and their method of operation, and also presents views of orna mental cement products made by them, to gether with photographs of porch and other work in which these products have been used

## The Chloride Accumulator.

Bulletin No. 121 issued by the Electric Storage Battery Co., general sales office and plan at Allegheny Ave. and 19th St., Philadelphia illustrates and describes the installation of the "chloride accumulator" in the mills of the Indiana Steel Co. at Gary, Ind. This plant is one of the most extensive of its kind, and a brief description of it in the bulletin enables engineers to understand the cter and extent of the load fluctuation power equipment. A storage-batter ent was installed principally to min mize the fluctuations of the load on the generating station. This battery proper con sists of two series of "chloride accumulator" cells, each series containing 125 cells. The capacity of each series is 4320 amperes at the one-hour rate, or \$640 amperes at the us regulating rate, and the two series operating parallel are capable of giving 17,280 am res at double the hour rating at a voltage slich may vary from 230 volts down to 200 volts, depending upon the state of charge of the battery and the duration of the dis-charge, etc. About 90 per cent. of the gen-erating plant is A. C., and the storage-bat-tery equipment is designed to take care of both A. C. and D. C. fluctuations.

## Inland Sheet Steel.

Under the title "The Story of an Inland Galvanized Sheet" the Inland Steel Co. of Chicago has published a booklet which sets forth (both by illustration and description in a clear and concise manner the details o manufacturing Inland sheet steel. The reader is carried step by step from the min ing of the iron ore in the Mesaba district. ing of the iron ore in the Mesada district, its transportation to the company's works at Indiana Harbor, Ind., the process of smelting the ore and the converting of the iron into steel by the basic open-hearth process. Having converted the ore into steel, the reader is then shown the processes followed in the blooming mill crowling followed in the blooming mill, croppi shear, sheet bar mill and sheet rolling mill which produce the sheet steel in the rough Then follows preparing the sheets for mar-ket, including trimming and squaring, cold eet rolling rolling, annealing, pickling and galvanizing.
To indicate the care which is taken in the manufacture of the company's product in order to keep it up to a high standard of us tests and inspectiona uniformity, the various made as the material passes from one de- Midland 2d, 100%; Alabama Consolidated

partment to another are described concludwith the final inspection given the plates fore they are sent to the shipping-room, users of sheet metal in any form this g with the final ir booklet cannot help but prove of great interest and profit, because it will enable them to secure a comprehensive idea of the vari-ous processes followed and the care exer-cised in the manufacture of Inland sheet steel from the iron ore to the finished product. This booklet differs from the usual one describing the manufacture of various acts in that the text is in no sense but is written in a style that will clated by the general user of sheet steel

The Corrosion and Preservation of Iron and Steel. By Allerton S. Cushr and Henry A. Gardner. Publisher, Mc-Graw-Hill Book Co., New York city. Price \$4 net.

The main purpose of this book is to elucidate the electrolytic theory of corrosion of iron and steel. In separate chapters are discussed the problem of corrosion, the theory of solutions, the theory of corrosion, the application of electrolytic theory, the inhibition and stimulation of corrosion, the technical protection of iron and steel, the relation of pigments to the corrosion of iron, recent field tests on productive coatings, paints for various purposes, testing and design of protective paints, the properties of pigments and of paint vehicles and the corrosion of water-jackets. A comprehensive bibliography is added to the volume, in which the authors have endeavored to include the results of all recent investigations and original researches touching on the subject up to the date of publication.

## FINANCIAL NEWS

The MANUPACTURERS' RECORD invites infor mation about Southern financial matters, items of news about new institutions, divi dends declared, securities to be issued, open ings for new banks, and general discussions of financial subjects bearing upon Southern

## Review of the Baltimore Market.

Office MANUFACTURERS' RECORD

Baltimore, Md., May 4.

The Baltimore stock market was generally dull during the past week. In the trading United Railways common sold at 12%; do. trust certificates, 12%; do. omes,  $59\frac{1}{2}$  to  $58\frac{3}{4}$ ; do. funding 5s,  $83\frac{1}{4}$  to  $82\frac{1}{4}$ , with last sale at  $82\frac{3}{4}$ ; do do, scrip, 83: United 4s. 86 to 85%, with last sale at 85%; Consolidated Gas, Electric Light & Power common, 53; do. pre ferred, 89 to 87, with last sale at 88: Consolidated Gas 6s, 100; do. 5s, 1071/4; do. 41/28, 911/2; Seaboard Company co 231/ ; Seaboard 4s, stamped, 84% to 83%; do. three-year 5s, 99% to 99%; do. 10-year 5s, 99%; do. adjustment 5s, 71; Consolidated Cotton Duck, 6: do. preferred, 17: Mt. Vernon-Woodberry Cotton Duck 5s. 68 to 681/4; G.-B.-S. Brewing 1sts, 401/4 to 40.

Bank stock sold as follows: Farmers and Merchants', 49: First National, 1371/4 to 137; Mechanics', 28; Commerce, 31; Union, 1211/4; Merchants', 178.

American Bonding sold from 781/6 to 78: Baltimore Trust, 166: Maryland Casualty. 921/4 to 90; Mercantile Trust, 141.

Other securities were traded in thus: Atlantic Coast Line of Connecticut, 5-20s. 91: Atlantic Coast Line Consolidated 4s, 94; Baltimore City 31/2s, 1980, 921/2; do. do. 1930, 95 : do. do. 1940, 95 : do. do. 1928, 951/2 to 951/4; do. 4s, 1926, W. L., 1001/2; Atlantic Coast Line Railroad, 126 to 1241/4; Consolidation Coal, 113 to 1091/2; Macon, Dublin & Savannah 5s, 9734; Baltimore, Sparrows Point & Chesapeake 41/28, 92; Baltimore Electric 5s, stamped, 88%; Carolina Central 4s, 911/2 to 901/2; United States Steel, 82 to 80; Wilmington & Weldon 5s, 1101/2 to 1101/4; Virginia

Coal & Iron 5s, 811/2; Fairmont & Clarksburg Traction preferred, 77%; Detroit United, 41/2s, 811/4; Fairmont Coal 1st 5s, 941/2; Georgia & Alabama Consolidated 5s, 10334 to 1031/2; Maryland Electric 5s. 97% to 98; Norfolk Railway & Light 5s. 99; Central Railway construction 5s, 108; Fairmont & Clarksburg Traction 5s, 96; Western Maryland Railroad stock, 441/4; Maryland, Delaware & Virginia preferred. 14%; Alabama Consolidated Coal & Iron a, 35; do. preferred, 67 to 701/2 City & Suburban (Washington) 5s. 1031/4 to 103%; Georgia, Carolina & Northern 5s, 105; Memphis Street Railway 5s, 99; Northern Central Railway stock, 1291/2 to 129: Charleston Consolidated Electric 5s. 931/2; Northern Central 5sA, 1111/2; Balore City Passenger 41/2s, 981/2; do. 5s, 1001/4 : Coal & Iron Railway 5s, 101.

## SECURITIES AT BALTIMORE.

Last Quotations for the Week Ended

2000		
Railroad Stocks. Par.	Bid. A	ksked.
Atlantic Coast of Conn 100	239	242
Charleston Consolidated 50	30	***
Fairmont & Clarksburg100	23	***
Fairmont & Clarksburg Pfd100	77%	
Georgia Sou. & Fla100		32
Norfolk & Ports. Trac. Com100	181/	191/4
Seaboard Company Common100	23	***
Seaboard Company 1st Pfd100	70	***
Seaboard Company 2d Pfd100		45
United Rys. & Elec. Co 50	121/2	13
Western Maryland100	44	***
Bank Stocks.		
Citizens' National Bank 10	38	39
Drovers & Mech. Nat. Bank 100	2:23	
Farmore & Mor Not Bonk 40		40

Western Maryland100	44	***
Bank Stocks.		
Citizens' National Bank 10	38	39
Drovers & Mech. Nat. Bank100	223	***
Farmers & Mer. Nat. Bank 40		49
First National Bank100	135	1371/2
Maryland National Bank 20	23	24
Merchants' National Bank100		178
National Bank of Baltimore100	121%	125
National Exchange Bank 100	155	
National Howard Bank 10	131/2	***
National Marine Bank 30	42	***
National Mechanics' Bank 10	26	28
National Union Bank of Md 100		1221/2
Second National Bank100	195	
Western National Bank 20		38
Trust, Fidelity and Casn-		

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21/2
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8
5
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miscellaneous Stocks.		
Ala. Con. Coal & Iron100	30	35
Ala. Con. Coal & Iron Pfd100	70	71
on, Cotton Duck Common 50	5	6
Con. Cotton Duck Pfd 50	161%	19
'on. Gas, Elec. Lt. & P. Com., 100	57	65
'on, Gas, Elec. Lt. & P. Pfd. 100	87	89
'onsolidation Coal100	108	112
Georges Creek Coal100	118	120
Railroad Bonds.		
Atlantic Coast Line 1st 4s, 1952	94	9436

The state of the s	230	T. mer.
Railroad Bonds.		
Atlantic Coast Line 1st 4s, 1952	94	9416
At. Coast Line Convert. Deb. 4s		100%
At. Coast Line Com. 4s, Ctfs., 5-20s	89%	
Atlan. Coast Line (Conn.) 5s, Ctfs.	103	105
Balto. & Harrisburg 5s, 1936	104	***
Balto, & Harrisburg Ext. 5s. 1938	103	***
Carolina Central 4s, 1949	90	9136
Charleston & West. Car. 5s, 1946	10456	1051
Coal & Iron Railway 5s, 1920	100%	1011/2
Col. & Green. 1st 6s, 1916		108
Georgia & Alabama 5s, 1943		104
Georgia, Car. & North, 1st 5s. 1929.	10434	105
Georgia, Car. & North. 1st 5s, 1929. Georgia Pacific 1st 6s, 1922	112	114
Georgia South. & Fla. 1st 5s, 1945	107	1071/2
Maryland & Penna. 4s, 1951	88	***
Macon, Dublin & Savannah 5s		98
Petersburg Class A 5s. 1926	10734	108
Piedmont & Cum. 1st 5s, 1911	99	***
Potomac Valley 1st 5s, 1941	105	
Raleigh & Augusta 1st 6s, 1926	115	
Raleigh & Gaston 5s		110%
	104	***
Silver Spgs., Ocala & G. 4s, 1918		971/2
	104	***
Savannah, Fla. & West. 6s		125
Seaboard 4s, Stamped	83%	831/2
Seaboard Air Line 5s. 10-year, 1911.	99%	100
Seaboard Air Line 5s, 3-year	99%	991/2
Seaboard & Roanoke 6s, 1916	100	
Virginia Midland 2d 6s, 1911	100%	1011/6
Virginia Midland 3d 6s, 1916	10714	1081/2
Virginia Midland 4th, 1921	104	110
	105	
Virginia Midland 6th 5s	107	108
Western Maryland 4s, 1952	8436	851/2
Western N. C. Con. 6s, 1914	104	106
Wil., Col. & Aug. 6s, 1910		1001/6
Wilmington & Weld. Gold 5s, 1935.	110	1101/2
Street Railway Bonds.		
Description of Donday		****

Western N. C. Con. 68, 1914	104	106
Wil., Col. & Aug. 6s, 1910		1001/4
Wilmington & Weld. Gold 5s, 1935.	110	1101/2
Street Railway Bonds.		
Atlanta Con. St. Ry. 5s	10314	1041/2
Augusta Ry. & Elec. 5s, 1940		101%
Balto, City Pass. 5s, 1911		100%
Balto., Sp. Pt. & C. 41/28		92%
Balto. Trac. 1st 5s, 1929		
Balto, Trac. (N. B. Div. 58), 1942.		112
Central Ry. Con. 5s (Balto.), 1932.		108
Charleston City Ry. 5s, 1923	1011/4	103
Charleston Con. Elec. 5s, 1999		941/2
City & Suburban 5s (Wash.), 1948.		10334
Fairmont & Clarksburg Trac. 58		96
Knoxville Trac. 1st 5s, 1928	103	104
Lake Roland Elevated 5s, 1942		113
Lexington Ry. 1st 5s, 1949	90	***
Macon Ry. & Lt. 1st Con. 5g, 1953	95%	
Maryland Electric Railways 58		98
Memphis Street Railway 5s	981/2	
Norfolk & Portsmouth Trac. 5s	79	81
Norfolk Railway & Light 58	98%	99
Norfolk Street Railway 5s, 1944	104	105%
United Railways 1st 4s, 1949	85%	86
United Railways Inc. 4s, 1949	59	
United Railways Fdg. 58	821/2	83

[For Additional Financial News, Sec Pages 90 and 91.

Established 1835

## The Merchants National Bank

South and Water Sts., BALTIMORE, MD.
DOUGLAS H. THOMAS, President,
WM. INGLE, Vice-Prest, and Cashier,
J. C. WANDS, Asat. Cashier.
JOHN B. H. DUNN, Asat. Cashier.
Capital, \$1,500,000
Snrplus and Profits,
Deposits, \$12,000,000
Accounts of Banks, Bankers, Corporations and Individuals solicited. We invite correspondence.

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We purchase SCHOOL, COUNTY and MU-NICIPAL BONDS. Southern Municipal Bonds

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United States Depository and Disbursing Agent.

apitel - - \$100,070 urplus and Undivided Profits - 40,000 A general banking business transacted Special attention given to collections.

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J. ERNEST SMITH, General Counsel and Vice-President.
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Fully Equipped Department for the Organization of Corporations under advice of Counsel, and for the Registration of Corporations as required by the Delaware Law.

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LONG LIFE

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THE LEAST AMOUNT OF ATTENTION WHEN IN-STALLED and GOOD

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MISCELLANEOUS SOUTHERN SECURITIES

COTTON MILL STOCKS

WILMINGTON, N. C
NEW YORK CITY 149 Broadway

## Southern Steam Railroad Securities DEALTIN F. J. LISMAN & CO.

Specialists in Steam R. R. Securities Members New York Stock Exchange,
30 Broad Street NEW YORK

404 Connecticut Mutual Bldg., Hartford. Land Tile & Trust Bldg., Philadelphia.

Land Tile & Trust Bldg., Philadelphia.

CROSS CREEK COAL COMPANY 6% Gold bonds, total issue \$250,000. All have been disposed of to investors and bankers in different parts of the country, including Saco, Maine; Boston, Mass.; Rochester, N. Y.; Westfield, Olean, Fredonia and Buffalo, N. Y.; Franklin, Coudersport, Pittsburgh, Smethport, Shamokin and Port Allegany, Pa.; Columbus, Dayton and Springfield, Ohio; Northfork, Welch and Bluefield, W. Va.; Roanoke, Va.; Nashville, Knoxville, Jasper, Chattanooga and South Pittsburg, Tenn.; Atlanta, Ga.; Lowell, Mass.; East Orange, N. J., and Washington, D. C., until now there are but \$30,000 of them left. These bonds are first lien on 7000 acres of the best coal properties in Tennessee, and \$75,000 of this money is being spent on an up-to-date coal works with a capacity of about 1000 tons a day. Particulars will be furnished from the office, 1006 Mutual Life Building, Buffalo, N. Y. P. S.—A bonus of preferred stock will be given with the bonds.

## GEO. M. CLARK Auditor and Public Accountant

Reem 315 James Building CHATTANOOGA, TENN.

## INVESTMENT SECURITIES

Southern Stocks and Bonds Municipal and Corporation Cotton Mill Stock a Specialty

AMERICAN"

The Value of a Transmission Rope

is measured by the amount of work you can get out of every

dollar's worth-not by the first cost.

**Transmission** 

The essential requirements of a first-class driving rope are:

CAPITAL \$1,000,000

SURPLUS, \$2,500,000

RESOURCES MORE THAN \$11,000,000

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The Baltimore Trust and Guarantee Company

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Mutual Building, RICHMOND, VA.

Our reports are accepted by the leading financiers of the world, and are frequently made the basis of credit.

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Branches in all Principal Cities

# The National Exchange Bank

Hopkins Place, German and Liberty Sts. Capital, \$1,000,000 July 15, 1908, Surplus and Profits, \$671,631.60 OFFICERS:

WALDO NEWCOMER, President. SUMMERFIELD BALDWIN, Vice-Pre R. VIRTON LANDALE, Ca-hier, WM J. DELCHER, A-et. Cashier, C. G. Morgan, Asst. Cashier. Accounts of Mercantile Firms, Corporations, Banks, Bankers and Individuals Invited.

# **Bank of Richmond**

RICHMOND, VA.

In aiding the development of legitimate usiness enterprises, this bank believes that it performs a required duty, and to this end the services of a live, progressive conservatively managed.

Capital and Surplus, \$1,500,000

JOHN SKELTON WILLIAMS, President.
FRED'K E. NOLTING, 1st Vice-President.
T. K. SANDS, 2d Vice-President and Cashler,
H. A. WILLIAMS, Assistant Cashler.
L. D. CRENSHAW, JR., Trust Officer.

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## Investment Bonds and **Listed Securities**

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## at prices very little higher than printed.

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HAWKINSVILLE, GEORGIA

Paid in Capital Stock, \$100,000

Buy and sell real estate, stocks, bonds, mortgages and other securities. Make investments and act as executor, administrator, trustee, receiver for firms, individuals and corporations.

Real estate loans and preparing ab stract of titles a specialty.

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SURETY BONDS

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OF MARYLAND

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Pioneer Surety Co. of the South. Becomes Surety on bonds of every de-scription.

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a driving rope that combines all these requisites. IT IS NOT the CHEAP-EST rope in first cost. IT IS the MOST ECONOMICAL rope to buy, as it is made of the finest quality pure, selected long fibre manila laid up in our special lubricating compound. It requires no external dressing and is stretched in process of manufacture. You will find any slight difference in first cost soon balanced by the cost of dressing required by ropes not lubricated

Write us for samples and prices

The American Manufacturing Co.

Largest Makers of Fibre in the World

Miscellaneous Bonds.		
Aln. Con. Coal & Iron 58	82	85
Atlanta Gas 1st 5s, 1947	101	***
Baltimore Electric 58	88	89
Consolidated Gas 6s, 1910	100	100%
Consolidated Gas 5s, 1939		1081/
Consolidated Gas 41/28		941/2
Con. Gas. Elec. Lt. & P. 41/28	81	81%
Fairmont Coal 1st 5s		95
GBS. Brewing 1st 4s	39%	401/4
GBS. Brewing Inc. 5s	5	15
Maryland Steel Co. 5s	100	***
Maryland Telephone 5s	99	
Mt. Vernon-Woodb'y Cot. Duck 5s.	681/2	6894
United Elec. Lt. & P. 4%s	90	93

## SOUTHERN COTTON-MILL STOCKS.

Quotations Furnished by William S Glenn, Broker, Spartanburg, S. C., for Week Ending May 2.

Albertus Cotton Mule (S. C.)	Bid.	Asked
Abbeville Cotton Mills (S. C.) Alken Mfg. Co. (S. C.) American Spinning Co. (S. C.) American Spinning Co. (S. C.) Anderson Cotton Mills (S. C.) Arcadia Mills (S. C.) Arkwright Cotton Mills (S. C.) Arkwright Cotton Mills (S. C.) Asyndrale Mills (Ala.) Belton Mills (S. C.) Brandon Mills (S. C.) Cannon Mfg. Co. (N. C.) Cabarrus Cotton Mills (N. C.) Chadwick Mfg. Co. (N. C.) Pfd. Chiquola Mfg. Co. (S. C.) Clifton Mfg. Co. (S. C.) Clifton Mfg. Co. (S. C.) Courtnay Mfg. Co. (S. C.) Courtnay Mfg. Co. (S. C.) Dallas Mfg. Co. (Ala.) Darlington Mfg. Co. (S. C.) Drayton Mills (S. C.) Eragle & Phenix Mills (Ga.) Easley Cotton Mills (S. C.) Eagle & Phenix Mills (Ga.) Ensley Cotton Mills (S. C.)	70 90	75
American Spinning Co. (S. C.)	160	***
Anderson Cotton Mills (S. C.)	53	65
Arcadia Mills (S. C.)	98	103
Augusta Factory (Ga.)	00	65
Avondale Mills (Ala.)	116	
Belton Mills (S. C.)	137	***
Brandon Mills (S. C.)	9 <del>9</del>	102
Cabarrus Cotton Mills (N. C.)	130	136
Chadwick Mfg. Co. (N. C.) Pfd	100	
Chiquola Mfg. Co. (S. C.)	175	182
Clinton Cotton Wills (S. C.)	120	105 130
Columbus Mfg. Co. (Ga.)	93	- 98
Courtnay Mfg. Co. (8. C.)		100
Dallas Mfg. Co. (Ala.)	99	92
D. E. Converse Co. (S. C.)	85	100
Drayton Mills (S. C.)	95	105
Eagle & Phenix Mills (Ga.)	117	***
Easley Cotton Mills (S. C.)	175	185
Enorge Mfg. Co. (S. C.) Pfd.	95	100
Enterprise Mfg. Co. (Ga.)	80	85
Eagle & Phenix Mills (Ga.) Easley Cotton Mills (S.C.). Enoree Mfg. Co. (S.C.). Enoree Mfg. Co. (S.C.) Pfd. Enterprise Mfg. Co. (Ga.). Exposition Cotton Mills (Ga.).		200
Commercial transfer of the Continuence	82 75	85 80
Galnesville Cotton Mills (Ga.) Glenwood Cotton Mills (S. C.) Gluck Mills (S. C.) Granby Cot. Mills (S. C.) Ist Pfd. Graniteville Mfg. Co. (S. C.) Greenwood Cotton Mills (S. C.) Greended Mills (S. C.) Hartsville Cotton Mill (S. C.) Hartsville Cotton Mill (S. C.)	10	150
Gluck Mills (S.C.)	98	101
Granby Cot. Mills (S. C.) 1st Pfd.	35	45
Grantteville Mig. Co. (S. C.)	160	165
Grendel Mills (S. C.)	114	117
Hartsville Cotton Mill (S. C.)	175	***
Henrietta Mills (N. C.)	100	175
King Mfg. Co. J. P. (Ga.)	90	93
Lancaster Cotton Mills (S. C.)	130	***
Henrietta Mills (N. C.) Inman Mills (S. C.) King Mfg. Co., J. P. (Ga.) Lancaster Cotton Mills (S. C.) Lancaster Cot. Mills (S. C.) Pfd. Langley Mfg. Co. (S. C.) Laurens Mills (S. C.) Limestone Mills (S. C.) Lockhart Mills (S. C.) Lockhart Mills (S. C.) Lory Cotton Mills (N. C.) Pfd. Lory Cotton Mills (N. C.) Pfd. Marlboro Cotton Mills (N. C.) Pfd. Marlboro Cotton Mills (S. C.)	97	100
Langley Mrg. Co. (8, C.)	120 127	127
Limestone Mills (S. C.)	100	170
Lockhart Mills (S. C.)	78	85
Lockhart Milla (S. C.) Pfd	99 96	100 971/4
Loray Cotton Mills (N. C.) Pfd., Mariboro Cotton Mills (S. C.) Mills Mfg. Co. (S. C.) Molohon Mfg. Co. (S. C.) Monaghan Mills (S. C.) Monaghan Mills (S. C.) Monarch Cotton Mills (S. C.) Ninety-six Cotton Mills (S. C.) Norris Cotton Mills (S. C.) Olympia Cotton Mills (S. C.) Olympia Cotton Mills (S. C.) Olympia Cotton Mills (S. C.) Orr Cotton Mills (S. C.)	80	85
Mills Mfg. Co. (8. C.)		102
Mollohon Mfg. Co. (S. C.)	106	110
Monarch Cotton Mills (8 C)	152 105	107
Newberry Cotton Mills (S. C.)	125	130
Ninety-six Cotton Mills (S. C.)	140	150
Olympia Cotton Mills (S. C.)	125 90	130
Orr Cotton Mills (8. C.)	106	109
Pacolet Mfg. Co. (8. C.)		101
Pacolet Mfg. Co. (S. C.) Pfd	99	102
Pledmont Mfg. Co. (S. C.)	175	177
Poe Mfg. Co., F. W. (S. C.)	170	190
Saxon Mills (S. C.)	127	***
Stoley Mfg. Co. (Ga.)	71 135	73 140
Trion Mfg. Co. (Ga.)	100	140
Tucapau Mills (8. C.)	300	***
Olympia Cotton Mills (S. C.) Orr Cotton Mills (S. C.) Pacolet Mfg. Co. (S. C.) Pacolet Mfg. Co. (S. C.) Pacolet Mfg. Co. (S. C.) Piedmont Mfg. Co. (S. C.) Saxon Mills (S. C.) Saxon Mills (S. C.) Sibley Mfg. Co. (Ga.) Spartan Mills (S. C.) Trion Mfg. Co. (Ga.) Trion Mfg. Co. (Ga.) Union-Buffalo (S. C.) 1st Pfd. Union-Buffalo (S. C.) 2d Pfd. Victor Mfg. Co. (S. C.) Warren Mfg. Co. (S. C.) Warren Mfg. Co. (S. C.) Washington Mills (Vn.)	74 20	80 25
Victor Mfg. Co. (S. C.)	154	20
Warren Mfg. Co. (S. C.)	107	
Warren Mfg. Co. (S. C.) Pfd	106	110
Washington Mills (Va.)	20	***
Whitney Mfg. Co. (8, C.)	135	
Wiscassett Mills (N. C.)	125	***
Woodruff Cotton Mills (S. C.)	98 98	103 103
Watta Mills (S. C.)	90	95
Whitney Mrg. Co. (S. C.) Wisenssert Mills (N. C.) Woodruff Cotton Mills (S. C.) Woodside Cotton Mills (S. C.) Watts Mills (S. C.) Williamston Mills (S. C.)	118	125

## To Finance New Developments.

The Public Securities Co. of Chicago which has been organized with authorized capital of \$20,000,000, proposes, among other things, to undertake the financing of gas, electric, traction, steam railway and timber properties and hydro-electric and irrigation projects after thorough investigation of any such enterprise which may be presented. The company owns and controls the firm of McCoy & Co., dealers in investment bonds, 181 La Salle street, Chi cago, which will continue in business Homer W. McCoy is president of the new company; Charles H. Deppe and Walter A. Graff, vice-presidents; Joseph H. Roy, secretary and treasurer. The advisory board includes several Southern men; for instance, A. G. Campbell of Natchez, Miss.; Lynn H. Dynkins of New Orleans; F. H. Fries of Winston-Salem, N. C.; W. S. Glenn of Spartanburg, S. C.; Caldwell Hardy of Norfolk, Va., and others.

## Arkansas Bankers.

At the twentieth annual convention of At the twentieth annual convention of vice-president; R. W. Millsaps, Z. D. Davis the Arkansas Bankers' Association, held at and W. J. Davis of Jackson, D. M. Miller

Fort Smith April 26 and 27, the following and 8, Kemp of Haslehurst, J. W. Ashley, officers were erected for the ensuing year: George R. Wood of Van Buren, president: A. D. Foster of Pine Bluff, vice-president Robert E. Wait of Little Rock, secretary, and F. M. Smith of De Queen, treasurer,

## FINANCIAL CORPORATIONS.

Ala., Goshen.-The First National Bank of Goshen has been approved; capital \$25,000; organizers, J. I. Law, G. B. Howard, J. C. Wilson, R. E. L. Mount and J. A. Carroll,

Booneville.-The Citizens' Bank of oneville is reported to have begun busi ees; capital \$25,000. J. C. Cotner is presi-ent; Mrs. Mattle Edwards, vice-president; charles X. Williams, cashier, and Omar Yarrough, assistant cashier,

Ark., De Witt.-The Commercial Bank of Ark., De Witt.—The Commercial Bank of De Witt, capital of \$30,000, has filed articles of incorporation. Business is expected to begin between June 1 and 15, with officers thus: J. W. Allen, president; L. A. Black, vice-president; J. M. Thompson, secretary nd treasurer

Ark., Pocahontas.—The People's Real Estate & Abstract Co., recently incorporated, has elected officers thus: H. L. Throgmorton, president; John F. James, vice-president and general manager; Dr. C. E. Stuttle, secretary and treasurer.

Fla., Gainesville.—The Florida Bank of Gainesville, capital \$75,000, is reported or-ganized with directors thus: J. J. Hay-mans, president; R. D. Medlin, J. W. Mc-Dowall and C. A. Faircloth, vice-presidents; J. M. Fenell, cashier; J. R. Faircloth, M. H. De Land, C. Y. Crawford, B. D. Hartsfield. J. K. Christian, Dr. J. H. Hodges, H. D. Wood, C. D. Dennis, E. Lee Hughes, J. G. Dampier, E. L. Johnson, Dr. O. S. Clyatt. Phillip Miller, T. J. Cone and C. A. Colclough; F. B. Hartsfield is assistant cashier.

Business is expected to begin about May 15.
Ga., Albany.—Official: The Georgia Na tional Bank chartered; capital \$100,000; sur plus \$10,000; F. F. Putney, president; J. E. Toole, cashier. This is a conversion of the Georgia Banking Co., which has a capital of

Ga., Atlanta.—Official: The American Bond & Mortgage Co. incorporated; capital \$1,000,-000; surplus \$500,000; incorporators, John D Walker, Sparta; D. W. James, Blakely; R. Mercer, Dawson; T. E. Gurr, Balnbrid; and Chas. P. Glover, Atlanta. Business expected to begin within 60 days.

Ga., Elberton.—Official: The Elbert Land & Abstract Co. chartered; capital \$10,006; neorporators, W. D. Tutt, J. II. Blackwell, H. P. Hunter, S. W. Thornton and L. M. Business is to begin at once.

Ga., Stillmore.-Official: The Farmer change Bank incorporated; capital \$15,000. Business has begun with R. E. Graham presi-dent, E. H. Heath first vice-president, John Durden second vice-president and W. M. Warren cashler.

Ga., Sylvania.—Reported that city proposes b issue \$40,000 of electric-light, water-works and sewerage bonds.

Ky., Kirksey.—Official: The Kirksey Bank chartered; capital \$15,000; W. P. Dulaney, president and R. L. Williams, cashier. Busiss is to begin May 16.

La., Opelousas.-The Union Bank & Trust La., Opelousas.—The Union Bank & Trust Co., capital \$100,000, is reported organized with directors thus: J. P. Sazan, president; Y. V. Andrespont, first vice-president, and Oscar Dardeau, second vice-president; Lionel Bienvenue, E. M. Bogni, Dr. G. Richard, Emar Andrespont, L. J. Dossmann, W. J. Sandoz, J. P. Boagni, Judge C. A. O'Neal and M. L. Swords. Business is expected to egin in December.

La., Thibodaux.-The Citizens' Bank of La-La., Thibodaux.—The Citizens' Bank of Lafourche has elected directors thus: E. N. Roth, president; W. E. Howell, Oieus Mire and Wilson Lepine, vice-presidents; H. L. Simus, cashler: L. E. Calilouet, Lovincy Rodrigue, John M. Webre, Charles A. Baeauvais, L. C. Roger, P. R. Percy, R. C. Seely and Walter Morvane; Elphege Ciement is assistant cashlor.

La., Mansfield.-The People's Bank is reorted organized with \$55,000 capital.

Md., Chestertown. — The Third National Bank of Chestertown has been authorized to egin business; capital \$50,000; James A. Pearce, president; Hope H. Barroll, vice-resident, and Wm. B. Copper, cashler.

Miss., Georgetown.-The Georgetown Bank, capital \$25,000, is reported organized with directors thus: I. N. Ellis of Hazlehurst, president; F. B. Catchings of Georgetown,

Mo., Eldon.-The Eldon Building and Loan Association is reported chartered with \$150,000 capital; incorporators, Robert S. Harvey, Charles G. Bullingham and Monroe E. Gumphrey.

, Joplin.— al \$50,000, -The Joplin Bond & Stock Co Mo capital \$50,000, is reported incorporated by Lon Dictrick, Kansas City; W. B. Cline and G. B. Brewer of Joplin.

N. C., Bailey .- A new bank capitalized at \$10,000 is reported organized with F. C. Bissette as president.

N. C., Holly Springs.-The Bank of Holly Springs, authorized capital \$100,000, is reported chartered by H. W. Norris, J. R. Car ver, C. H. Collins, G. H. Alford and B. W.

Okla Duke The Farmers and Marchants Bank of Duke has been authorized to begin business; capital \$10,000; W. B. Graves of Hollis, president; J. H. Burnett of Due, cashier, and L. W. Burnett of Looney, viceresident

Okla., New Orleans.-The Magazine Market Building and Loan Association is reported to have filed articles of incorporation; capital \$5,000,000. Among the incorporators are A. J. O'Keefe, Edward C. Byrnes, Pierre D. Oliver and M. D. Conners.

Okla., Port.-George C. Whitehurst and J A. Whitehurst of Sayre and Frank Mosier of Port are reported organizing a bank.

S. C., Clinton.-The Commercial Bank of Clinton, capital \$35,000, will, it is reported begin business about September 15 with J. D. begin business good september is with 3, b.
Bell president and H. D. Henry cashier; directors, Geo. W. Young, W. E. Bell, J. L.
Copeland, L. H. Davidson, W. J. Henry, Jack H. Young and J. F. Bell of Renno.

S. C., Hartsville.-The Hartsville Building and Loan Association, capital \$50,000, with privilege of increasing to \$150,000, has elected privilege of increasing to \$150,000, has elected officers thus: President, W. Egleston; vice-president, T. E. Goodson; secretary and treasurer, C. M. McDonald; solicitor, F. A. Miller; directors, L. Vaughan, M. S. McKinnon, G. E. King, L. B. Stephenson, T. E. Goodson, L. F. Watford, C. W. Coker, L. W. Coker and Dr. Wm. Egleston.

S. C., Pelion.-Reported that a bank is to ized.

S. C., Sumter.-Official: The Consolidated S. C., Sumter.—Omeiai: The Consolutated Insurance Agency incorporated; capital \$10, 000; incorporators, W. B. Upshur, Geo. D. Shue, Thos. Wilson, Neill O'Donnell, Isaac Schwartz, C. T. Mason, C. G. Rowland, L. D. Jenning and R. I. Manning. Business is to mediately

S. C., Union.-The Citizens' National Bank has been authorized to begin business; capital \$50,000. P. R. Morgan is president and C. S. Sanders cashier. This is said to be a conversion of the Citizens' Savings Bank.

Tex., Center.—The State Guaranty Bank is eported chartered with \$25,000 capital by W. W. Lastinger, George F. Oliver, A. M. Jones and others.

Tex., Eustace.-Official: The First State Bank chartered; capital \$10,000. Directors:
M. E. Edgar, president; G. J. Cook, vicepresident, and F. C. Warren, cashier, all of
Eustace, Tex.; F. M. Earnest, G. F. Weakes,
J. M. Hussey and P. E. Miller of Athens,

Fort Stockton.-The First Nation Tex.. Bank has been approved; capital \$25,000. Organizers: C. A. Brown of Alpine, Tex.; R. L. Neville, A. S. Gage and J. A. Sanford.

Va., Lexington.-The Farmers Depo Savings Bank incorporated; capital \$25,000 to \$59,000; B. E. Vaughan, president; J. D. H. Ross, vice-president, and W. C. Firebaugh, secretary and treasurer.

Va., Norton.—The National Bank of Norton, capital \$25,000, has elected directors thus: E. H. Ould, president; J. W. Litton. vice-president; L. H. Petree, cashier; directors, E. H. Ould, J. W. Litton, T. M. Cherry, H. M. Bandy and E. H. Kilgore.

## NEW SECURITIES.

Ala., Anniston.—Official: An election is to be held May 23 to vote on \$60,000 of 5 per cent. 30-year school and funding bonds; de-nomination \$500. Bids for same will be re-ceived until 8 P. M. May 26. Address City Council; John S. Stump, City Clerk.

Ala., Decatur.—Bids will be received by H. A. Skeggs, Mayor, until May 17 for \$25,000 of 5 per cent. 30-year city hall, jail and fire department bonds.

Ala., Camden.—Reported that an election is to be held in Wilcox county May 2 to vote on \$150,000 of Wilcox road bonds.

Ala., Tuscaloosa.-Reported that an elec-

tion is to be held to vote on \$10,000 of addi-

Ala., Tuscaloosa.-An ordinance is to be epared, it is stated, providing for \$10,000 of ditional school bonds. dditional sch

Ark., Lockesburg.-An official letter denies ort that bonds are to be in

Ark., Prairie Grove.-Reported voted : \$20. 600 of school-building bonds

Fla., Fort Pierce,-Official: The Atlantic National Bank of Jacksonville, Fla., and the National Bank of Jacksonville, Fia., and the Bank of Fort Pierce at Fort Pierce, Fla., pur chased the \$200,000 of 5 per cent. St. Lucic county good-roads bonds; denomination \$1000; dated February 7, 1910.

Fla., Milton.-Voted: \$25,000 water-works, 10,000 of electric-light and \$5000 of sewerage onds. W. W. Clark is Mayor and W. J. Willlams, Jr., City Clerk,

Fla., Tallahassee.-An official letter confirms the report that bids will be received until May 12 for \$30,000 of 5 per cent. 10-56 year judgment, funding and electric an water-works system improvement bonds; de iomination \$1000; dated May 1, 1910. Council has full and exclusive control of the natter

Fla., West Palm Beach.-May 31 an election ls to be held to vote on \$6000 of 6 per cent. 5-20-year bonds of Special Tax School Dis-trict No. 5. Address J. Daugharty.

Ga., Cairo.-An election will be held May 2, it is stated, to vote on \$9000 of water-exten-sion and \$6000 of electric-light-extension

Ga., Cusseta.-Reported that \$2500 of 6 per cent. 20-year school-building bonds have been voted, and bids for same will be received at any time.

Ga., Macon.—An official letter says that in August Bibb county will probably vote on the question of issuing bonds.

Ga., Union City.—Official: Voted: \$20,090 of 6 per cent. 10-30-year school building, street, water-works and electric-light bonds; denomination \$1000; dated May 1, 1910. As soon as bonds are validated bids will be asked. D. A. Carmical is Mayor, and W. M. Rogers, City Clerk.

La., St. Martinsville.—Reported that \$20, 00 of bonds for high school will be issued.

Md., Betterton,-Reported that bonds for et and sidewalk improvements have b

Md. Frederick -Rids will be re til May 23 for \$64,000 of 4½ per cent. funding bonds. Address The Mayor.

Miss., Brooksville.—Bids will be received antil 7 P. M. June 1 for \$7000 of 6 per cent. 20-year and \$2000 of 5 per cent. 18-year bonds. S. Jamison is Mayor and M. A. Parks

Miss., Jackson,-Official: E. F. Noel, Gov. ernor, will receive bids until noon June 6 for \$600,000 of 20-year bonds for the purpose of defraying the expenses of the government of the State of Mississippi; interest not to exceed 4 per cent.

Miss., Pickens.—Regarding the report that \$5000 of school bonds had been voted, an officlal letter says: "There has been no action taken on the bond issue further than an in-formal election to ascertain the sentiment of

Mo., Poplar Bluff.—Official: Bids will be received by I. H. Barnhill, County Treasurer, until May 19 for \$25,000 of 4 per cent. 10-20-year Butler county jail bonds; dated July . 1910

Mo., Tipton.-The question of holding an election to vote bonds for electric-light plant is reported under consideration. Joseph Som merhauser is City Clerk.

N. C., Edenton.—Official: Bids will be re-celved until noon May 28 by W. J. Berryman, secretary Board of Drainage Commissioners, for \$25,000 of 6 per cent. Bear Swamp drainage district bonds.

N. C., Franklin.-Reported voted: \$20,000 of 6 per cent. 30-year water and sewer bonds

N. C., Greensboro.—Official: Voted—\$35,000 of 5 per cent. 30-year school bonds; denom nation \$1000. Bids will be asked as soon as possible. E. J. Stafford is Mayor.

N. C., Murphy.-Official: Bids will be received until May 16 for \$25,000 of water-works and sewerage bonds. Address Axley, Secretary and Treasurer. Address Willard M.

N. C., Statesville.—Official: Bids will be received until noon May 16 for \$50,000 of 5 per cent. 30-year Statesville township rail-road-aid bonds; denomination, \$1000; dated January 1, 1910. Address D. M. Ausley, treasurer.

N. C., Sanford.-An official letter of the report that blds will be opened May 17 for \$25,000 of 4½ per cent. 40-year sewerage bonds; denomination \$1000; dated June 1. 1910. Address J. D. Gunter, Sr., clerk. T. L. Chisholm is Mayor.

Okla., Cornish.-Bids will be received until 6 P. M. May 9 for \$5000 of 6 per cent. town-building bonds. Z. L. Boles is president board of trustees.

Okla., Broken Arrow.-Voted: \$27,000 cf

or water-works; defeated, \$5000 of city hall onds.

Okla., Frederick.—An official letter confirms the report that Dr. J. A. Gills will receive bids until May 2 for \$25,000 of 5 per cent. 25-year school bonds; denomination \$1000; dated April 15.

Okla., Hobart.-C. H. Fawks, Clerk Klowa ounty, is reported offering for sale \$17,509 of 6 per cent, drainage bonds

Okla., Medford.-Reported that all bids received for the \$18,000 of electric-light plant and \$12,000 of water-works extension 6 per cent. bonds were rejected.

Okla., Lawton.-Voted: \$280,000 of sewer, water-works and dam bonds

Okla., Woodward .- Reported that \$35,000 of high-school bonds have been voted

Tenn., Memphis.—According to press dispatches, ordinances have been prepared providing for the issuing of \$260,000 of 4½ per cent. police-station bonds.

Tenn., Rogersville.-The Knoxville Banking & Trust Co. is reported to have purchased at \$435 premium \$40,000 of 5 per cent. Hawk-ins county pike bonds.

Tex., Austin.—The Attorney-General has approved the following securities: \$500,000 or per cent. Galveston county road improve-nent bonds; \$21,956 of 5 per cent. 10-40-year ment bonds; \$21,996 of 5 per cent. 10-40-year Port Lavaca independent school district bonds; \$100,000 of 5 per cent. 10-40-year Jones county courthouse bonds; \$10,000 of 5 per cent. 10-35-year Elgin independent school dis-trict schoolhouse bonds; \$3000 of 5 per cent. 20-year Armstrong county common school district No. 7 schoolhouse bonds; \$1000 of 5 per cent. Jack county common school district No. 19 schoolhouse bonds; \$2000 of 5 per cent. 5-20-year Argo independent school district

Tex., Beeville.-Official: Voted: \$30,000 of 5 per cent. 10-20-year sewer bonds; denomina-tion \$1000. Address John R. Beasley, Mayor. Tex., Beeville.—Official: Voted—\$30,000 of

5 per cent, 10-40-year sewer bonds; denominaon \$1000.

Tex., Belton,-Reported voted: \$10,000 of ol-building bonds

Tex., Byers.-Official. Voted: \$12,000 of 5 per cent. 40-year bonds for addition to school building. A. M. Hanna is secretary Board of Trustees of Byers School District.

Tex., Ennis.—Bids will be received by T. 11. Collier, Mayor, until 2 P. M. May 3 for \$12,000 of 5 per cent. 10-40-year water bonds.

Tex., Fairland.—According to press dis-patches, bonds for water-works extension and schools have been voted.

Tex., Fort Worth.—No sale was made April 28 of the \$250,000 of 5 per cent. Tarrant county leves bonds.

Tex., Gainesville.—Bids will be received until May 21 by C. R. Pearman, County Judge, for \$125,000 of 4 per cent. 10-40-year Cooke county courthouse bonds.

Tex., Galveston.-According to press dispatches, the State Board of Education has waived its option of \$500,000 of 5 per cent. Galveston county road-improvement bonds, and they will now be put on the market.

Tex., Maypearl.—Reported that an election is to be held June 4 to vote on \$25,000 of road

Tex., Paris.—Bids will be received until 7.30 P. M. May 9 by G. H. McCuiston, Mayor, for \$60,000 of street Improvement, \$20,000 of water-works extension and \$5000 of public school building 10-20-year bonds.

Tex., Pendleton.—Reported voted: \$10,090 f school bonds.

Tex., Plainview.-Reported that \$10,000 of hall and fire-station bo

Tex., Ringgold.-Official: Voted: \$12,900 Tex., Ringgold.—Official: Voted: \$12,900 of 5 per cent. 40-year bonds of Ringgold School District 48; denomination \$1000. Date for opening bids not yet decided. R. J. Liston is secretary of School Board.

Tex., San Marcos.—June 4, it is stated, a special election is to be held to vote on \$20,000 of road bonds.

Tex., Sherman.—Bids will be received until 7.30 P. M. June 6 by B. C. Kreager, City Secretary, for \$12,000 of water-works and \$5000 of street improvement 4½ per cent. bonds.

Tex., Waxahachie.—June 4, it is reported, recinct No. 3 will vote on \$300,000 of road

Va., Christiansburg.—Official: Bids will be received until noon May 31 for \$40,000 of 15-30-year water-works bonds; bidder to name rate of interest. Address Recorder of Town of Christiansburg. W. C. Flagg is Mayor.

Va., Denbigh.-Reported that an election is to be held in June to vote on \$5000 of Denbigh school district bonds

Va., Eastville,-Bids will be received until noon May 16 for \$5000 of 5 per cent. 5-20-year town bonds. R. S. Trower, Sr., is town

Va., Luray.-The New Market & Sperryville Turnpike Co. contemplates issuing several thousand dollars' worth of bonds for im-

Va., Portsmouth.-The City Council has ed an ordinance authorizing the issu ing of \$125,000 of street improvement and \$50,000 of school bonds. John Howard Hall is chairman of the finance committee.

W. Va., Beckley.-May 17 an election is to be held to vote on bonds for high school.

W. Va., Fairmont.—An election is to be held May 21 to vote on \$75,000 of water-works

W. Va., Keyser.—Dispatches state that a pecial election is to be held May 10 to vote on \$40,000 of water-works improvement bonds.

W. Va., Keyser.-An official letter confi the report that an election is to be held May 17 to vote on \$25,000 of 5 per cent, 11-23-year bonds for erecting aditional school building: bonds for erecting aditional school by denomination \$500; date of opening by yet decided. Address J. W. Stayman.

At Christiansburg, Va., blds will be reived until noon May 31 for \$40,000 of 15 year water-works bonds. Further particulars will be fund in the advertising columns,

At Statesville, N. C., bids will be received until noon May 16 for \$50,000 of 5 per cent. 30-year Statesville township railroad-aid bonds. Further particulars will be found in the advertising columns.

At Edenton, N. C., bids will be received un til noon May 28 for \$25,000 of 6 per cent. Bear Swamp drainage district bonds. Further par-ticulars will be found in the advertising

At Baltimore, Md., bids will be received until noon May 23 for \$2,400,000 of 4 per cent. city stock, ns follows: \$500,000 of Annex improvement loan, \$500,000 of new engine-house loan, \$500,000 of new schoolhouse loan, \$350, 900 of conduit loan and \$550,000 of burnt dis-trict improvement loan. Further particulars will be found in the advertising columns.

At Murphy, N. C., bids will be received until May 16 for \$25,000 of waterworks and sewerage bonds. Further particulars will be found in the advertising columns.

At Jackson, Miss., bids will be received until noon June 6 for \$600,000 of 20-year Miss issippi State bonds; interest not to exceed the per cent. Further particulars will be found in the advertising columns.

## FINANCIAL NOTES.

The Tennessee Bankers' Association will eet at Chattanooga May 24 and 25.

The Bank of Elizabethtown, N. C., is reported to have increased its capital from \$5000 to \$10,000.

The Mississippi Bankers' Association will hold its annual convention at Natches, Miss., May 9 and 10.

The People's National Bank of Rock Hill, S. C., is reported to be doing business in its new building.

The Florida Bankers' Association will hold its annual meeting at Pensacola, Fig., May 6 and 7.

The American Trust Co. of Charlotte, N. l, according to press dispatches, on open a stock and bond department and a real estate department, both to be under the management of E. V. Patters

The annual meeting of the Georgia Bank-rs' Association will be held at Atlanta June

The Morristown Bank & Trust Co. of Morristown, Tenn., wil, it is reported, increase its capital from \$25,000 to \$50,000.

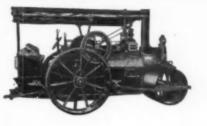
THE BOARD OF DIRECTORS of The American Cotton Oil Company on May 3, 1919, declared a semi-annual Dividend of Three per cent. upon the Preferred Stock, and a semi-annual Dividend of Two and one-half per cent. upon the Common Stock of the Company, both payable June 1, 1919, at the Banking House of Winslow, Lanler & Co., 59 Cedar Street, New York City.

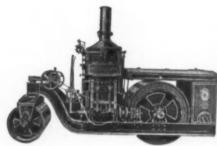
The Stock Transfer Books of the Company will be closed on May 16, 1919, at 3 P. M., and will remain closed until June 2, 1919, at 10 A M.

JUSTUS E. RALPH, Secretary.

# THE IROQUOIS IRON WORKS

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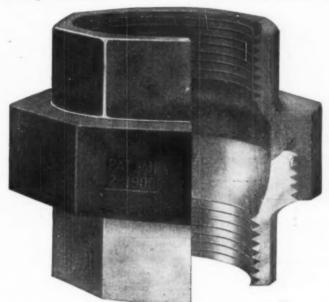
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Brass to Iron Thread Connection.



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perfect line.

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¶ Because there are no inserted parts to become loosened through expansion and contraction.

¶ Because the "Kewanee" Union can be used again and again

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Export Representatives: U. S. Steel Products Export Co., New York City.

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WANTED—A live excelsior salesman; must know all the markets for excelsior, wood-wool and excelsior pads; a desirable position for the right man. Address No. 618, care Manufacturers' Record.

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LIVE-WIRE SALESMEN calling on manufacturers' trade; large profits; small samples; quick sales. Fairfax Refining Co., Cleveland, Ohio.

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EXPERIENCED OFFICE MANAGER and accountant desires change; best references. Address No. 614, care Manufacturers' Record.

A MASTER MECHANIC of skill and abil-ity, 40 years old, married, and of temperate habits, desires a change. Address No. 623, care Manufacturers' Record.

WANTED—Position as oil mill superintendent; have had 8 years experience at an average of 45 gallons per ton each year; can give best of reference. Address G. S. C., Box 75, Wadesboro, N. C.

SECRETARY for manufacturing company, \$1500, in Houston; also bookkeeper lumber company, \$1200, and manager commissary, \$1200. Give age and experience. American Opportunity Co., Houston, Texas.

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best in Southwest. Scott Braden & Co., Oklahoma City, Oklahoma.

## COTTON MILLS

COLEMAN, TEXAS, wants a cotton mill located there, and wants to get in correspondence with people who can put it in and do the work. We are located in the center of a fine cotton-producing country and have good railroad facilities for handling the raw material and finished product. This county was twelfth in the production of cotton in the State of Texas in 1908. We can control from this and adjoining counties 250,000 bales and can get 400,000 if we go after it. Call on or address Coleman Commercial Club, Coleman, Texas.

ABILENE, TEXAS, wants a cotton mill; lnexhaustible supply of pure water; steam coal at \$1.50 per ton; splendid shipping facilities; near the geographical center of the State; one-quarter million bales of cotton produced within a radius of 45 miles of the city last year. Address Abilene 25,000 Club, Box 537.

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ATLANTA, TEXAS, WANTS A GLASS FACTORY.—We have an unlimited quantity of glass sand that analyses over 99 per cent. silica; natural gas in any quantity at satisfactory price; salt and lime manufactured close by; plenty of timber and water and other material; free site, free sand 20 years, exemption from city taxation 10 years, free artesian water to the first factory; transportation and rates all right. Write for full particulars on this and other factory propositions. Great opportunities. Cass County Industrial League, Atlanta, Texas.

CANNING FACTORY

CANNING FACTORY.—Fine opening for a canning, preserving and pickle factory for canning all kinds of vegetables, putting up pickles and making catsups of various kinds, in town of 4500 population, with three trunk lines of railway, surrounded by fine farming lands producing all kinds of vegetables and many kinds of fruits, especially figs and oranges. Nothing of the kind here at present. Address Ten Thousand Club, Bay City, Texas.

#### CAN FACTORY

WHY DON'T YOU manufacture shipping cans in Houston, Texas? Great opportunity; large quantities shipped in for local consumption; one plant alone consumers 100 carloads annually; other consumers are six coffee-roasting plants, two wholesale preserving plants and two wholesale drug houses; truck and fruit growers also large consumers. The right time to get in is now Write for information to Adolph Boldt, Secretary Houston Business League, Houston, Texas.

## STEAM LAUNDRY

STEAM LAUNDRY

ITASCA, TEXAS, a town of 3500 people, with a trade territory containing a population of 15,000, wants an up-to-date steam laundry with sufficient capacity to handle the business; country is peopled by prosperous, progressive people, who are strong be lievers in "home industry." Itasca has \$150,000 cotton mill, \$125,000 oil mill, roller mills sight plants, a large woman's college, will soon begin the erection of a \$35,000 high school building, and has a great deal of money invested in churches. Address Board of Trade, Itasca, Texas.

## FURNITURE FACTORY

FURNITURE FACTORY.—Free site and liberal stock subscriptions for location of furniture factory of any kind. Abundance of raw material and unexcelled transportation facilities. Address Chas. R. Rowe, Secretary Lufkin Progressive League, Lufkin, Texas.

## MISCELLANEOUS

FREE SITES and concessions on taxes, water and fuel given to factories to locate in McAlester, Oklahoma, the manufacturing city of the Southwest; cotton, fire clay, brick shales, iron, limestone, lumber and many other raw materials. Ask the Commercial Club, McAlester, Oklahoma.

AUSTIN, TEXAS, offers special inducements to the manufacturer or commercial man seeking a profitable investment. The home seeker is given the best of attention and the most liberal values. Austin real estate is the most active of any in Texas. If you haven't time to come to Austin in person, write to Will L. Vining, the Secretary of the Austin Business League, who will give you all the information you want.

VICTORIA, TEXAS, head of navigation of Guadalupe River: center of cotton, corn. Gundalupe River; center of cotton, corn, truck and citrus fruit growing district of South Texas; country rapidly developing; opportunities for many industries. If interested in the coastal section of Texas, write for booklet "D" to the Secretary of the Progressive League.

NAVASOTA, TEXAS, the town of great opportunities; raliroads radiate in eight directions; sixteen passenger trains daily; six thousand population; navigation to deep water assured; ideal location for factories; abundance of raw material; we want a cotton mill, press-brick plant, packery, and furniture factory; great opportunities for invest-ment in lands, town additions and various enterprises; investors earnestly solicited to personally investigate. They will meet with cordial co-operation. Address J. J. Felder of Business Men's Club, Navasota, Texas.

FACTORIES WANTED.—Special inducements for manufacturing plants, particularly small industries, using wood, cotton or iron raw materials; mild, healthful climate; cheap freights, fuel, labor and living expenses. We mean business and will do our part. Business League, Columbus, Miss.

THE CITY OF FLORENCE, S. C., in the center of the great cotton and tobacco region of the Pee Dee section of South Carolina, has attractive propositions to offer for a brick-manufacturing plant, a carriage and wagon factory, a machine shop and foundry, lumber and woodworking plant; finest distributing point in the State, with unsurpassed railroad facilities; abundance of good brick clay. Such plant could control output in this the finest agricultural region in the Southeast. Correspondence solicited by the Florence Board of Trade.

HOUSTON NEEDS a flour mill; free site on the great Houston Ship Channel; also free site for a hardwood manufacturing plant; unlimited raw material at hand; water transportation and seventeen rail lines, and the distributing center for the entire Southwest. Write Adolph Boldt, Secretary Houston Business League, Houston, Texas.

"TAMPA IS THE TOWN TO TIE TO."—
Gateway to Gulf; nearest important American port to Panama canal; doubling population every four years; 100 per cent. city of South; big opportunities for investor, manufacturer, homeseeker; tourists' paradise. For literature address W. B. Powell, Secretary Board of Trade, Tampa, Fla.

INDUSTRIAL LOCATIONS.—A Tennessee town, well located on main line Southern Railway, at junction point, has openings at present for an ice plant, flour mill, a stave factory and other woodworking plants, with good supply of raw materials within easy distance. The town will co-operate with interested parties in the locations of plants. Refer to File 23,634. M. V. Richards, Land and Industrial Agent, 1300 Pennsylvania avenue, Washington, D. C.

DENISON, TEXAS, offers splendid opportunities for the manufacturer, investor and prospective settler, where coal, timber, oil and natural gas are to be had at exceptionally low figures. Denison is the general division point of the M., K. & T. Railway, with lines diverging in six different directions and mammoth shops. Labor, skilled and unskilled, plentiful. Excellent public and private school facilities. Oklahoma fields give extensive cheap fuel, and with matural lnexhaustible supply of cheap water, Denison is the ideal factory location. Excellent transportation facilities furnished by five railroads. One-half cent to three cents per 1000 for water for factory purposes. Splendid location for all kinds of factories. Free sites furnished by the city. For further detailed information write to Roy M. Finley, Secretary Live Wires Association, Denison, Texas.

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MANUFACTURERS, INVESTORS AND PROSPECTORS will find in Lawton, Oklahoma, an ideal field for investments; free sites for manufacturing establishments on trackage for meritorious industries; a center of remarkable growth; 12,000 population; only eight years old; best water supply in Oklahoma; natural gas; one million dollars being expended in public improvements; fine educational facilities; forty-five miles of uniform concrete sidewalks; five miles of natural Oklahoma rock asphalt paving; splendid railroad facilities; raw material at hand. For further detailed information address L. P. Arnold, Secretary Chamber of Commerce, Lawton, Oklahoma.

FREE—Industrial review of Muskogee, Oklahoma. If you are looking for a safe, judicious investment, good location or useful information, you will appreciate this book. It's full of meat. A card will bring it. Write today. Muskogee Townsite Co., Muskogee, Okla.

A GOOD LOCATION for a hosiery mill, overall factory, iron foundry and similar enterprises; ample railroad facilities; inducements offered to the right parties. For information address the Stamford Commercial Club, Homer D. Wade, Secretary Stamford, Texas.

QUANAH wants a cotton mill, meat-packing plant, shoe factory; large amount of
stock ready to be taken or bonus given for
any of these enterprises; four railroads; immense distributing territory; city growing
5 per cent. annually. Chamber of Commerce, Quanah, Tex.

merce, Quanah, Tex.

MANUFACTURERS' OPPORTUNITY.—
Free sites; no taxes; cheap natural gas; cheap coal; abundant water supply; best transportation; good town; opportunities for manufacture of furniture, woodenware and novelties, glass, tile and pottery, over alls, iron and steel products, carriages, etc. Write Board of Trade, Grafton, W. Va.

Write Board of Trade, Grafton, W. Va.

MANUFACTURING SITES FREE in the progressive State of Oklahoma, in the town of Arkoma, adjoining Fort Smith, and connected by an electric railway. Water rates free. Shale, natural gas, brick material and pure water. 250 feet higher than Fort Smith. Manufacturers' paradise in the way of cheap materials. Water and railway transportation. Rich bottom lands of 2000 acres; could be cut up in 20, 30 and 40-acre farms for trucking. In center of the great coal beds of Arkansas and Oklahoma. Within a radius of 250 miles of 22 per cent. of the standing hardwoods of the United States. Town lots for sale. For further information write Hopkins & Murray, 800-803 First National Bank Building, Fort Smith, Arkansas.

COME TO ASHLAND, KY.—Best paved city in U. S.; on Ohio and Big Sandy rivers; five railroads. Ashland wants farmers and fruit growers, wholesale establishments, manufacturers; also pig-iron, steel, black and galvanized sheets, nails, wire products, leather, lumber, fire-brick, red brick and coment block manufactured here. Cheap coal and natural gas. Write Ashland Business Men's Association, Ashland, Ky.

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